

Data File : VL033827.D
Acq On : 29 May 2019 7:00
Operator : SY/AP
Sample : K2960-08DL 40X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
BPS1-SG-3010-55DL

Quant Time: May 29 08:10:06 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL051719AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri May 17 08:15:41 2019
QLast Update : Fri May 17 08:15:41 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.75	49	819662	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.28	114	1919491	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.23	117	1740822	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.57	95	1463588	10.37	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.70%

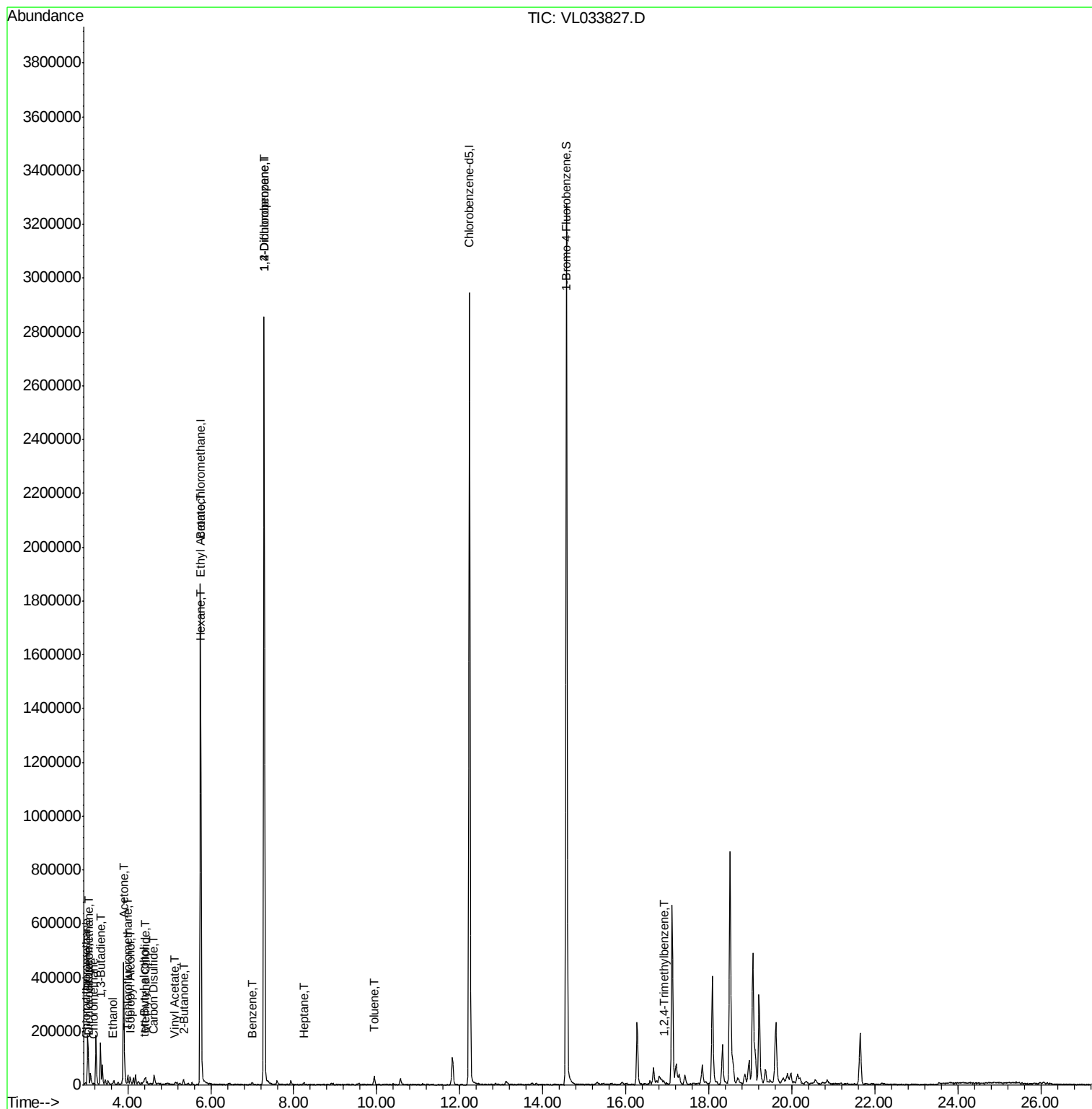
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.08	85	2936	0.017	ppbv #	76
3) Chlorodifluoromethane	2.99	51	4227	0.045	ppbv #	74
4) Chloromethane	3.17	50	702	0.013	ppbv #	85
9) Propene	3.04	41	64324	1.611	ppbv	91
10) Heptane	8.24	43	1433	0.013	ppbv #	26
11) Trichlorofluoromethane	4.00	101	20071	0.122	ppbv	90
13) Ethanol	3.64	45	440	0.034	ppbv #	38
15) Acetone	3.90	43	454693	3.998	ppbv	100
16) 1,3-Butadiene	3.34	39	42512	0.939	ppbv #	27
17) tert-Butyl alcohol	4.38	59	1224	0.013	ppbv #	72
19) Isopropyl Alcohol	4.05	45	2452	0.033	ppbv #	94
20) Methylene Chloride	4.40	84	2478	0.057	ppbv #	81
23) Vinyl Acetate	5.14	43	2007	0.013	ppbv #	21
25) Ethyl Acetate	5.77	43	3782	0.019	ppbv #	83
26) Hexane	5.77	57	5503	0.064	ppbv #	36
27) Carbon Disulfide	4.62	76	3141	0.027	ppbv #	60
34) 2-Butanone	5.34	43	9001	0.076	ppbv #	33
36) Benzene	7.00	78	3039	0.017	ppbv #	67
39) 1,2-Dichloropropane	7.28	63	499551	7.674	ppbv #	23
53) Toluene	9.94	91	22208	0.118	ppbv	99
74) 1,2,4-Trimethylbenzene	16.91	105	3320	0.013	ppbv #	62

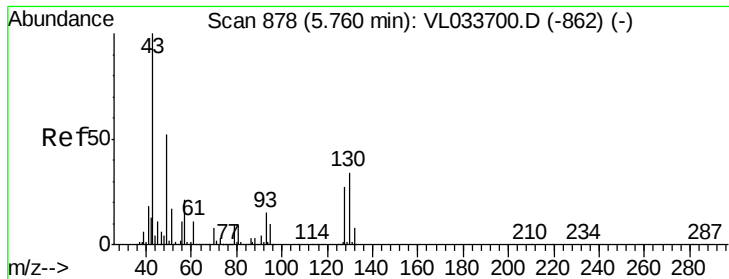
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.75 min Scan# 876

Delta R.T. -0.01 min

Lab File: VL033827.D

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Instrument :

MSVOA_L

ClientSampleId :

BPS1-SG-3010-55DL

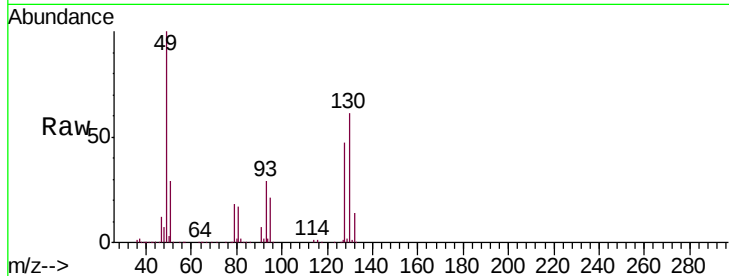
Tgt Ion: 49 Resp: 819662

Ion Ratio Lower Upper

49 100

128 49.0 25.2 75.6

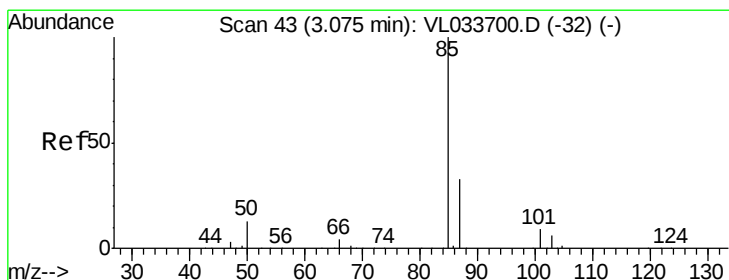
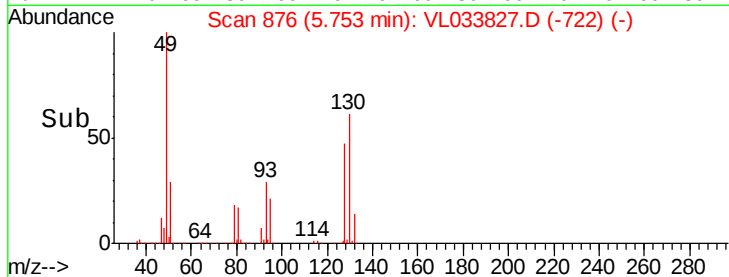
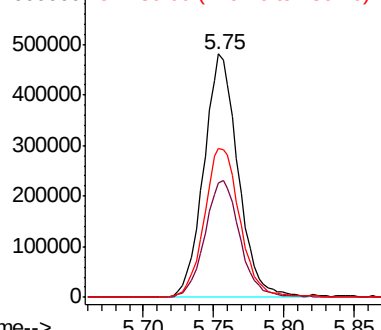
130 64.4 32.5 97.5



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 0.017 ppbv

RT: 3.08 min Scan# 43

Delta R.T. 0.00 min

Lab File: VL033827.D

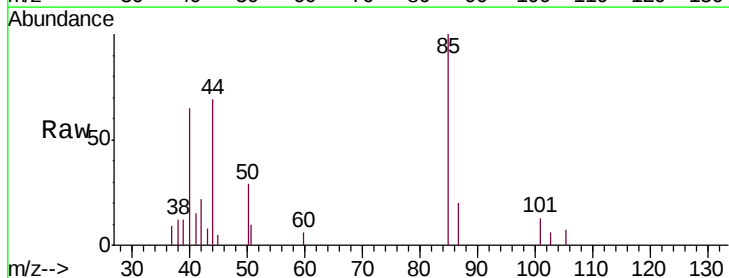
Acq: 29 May 2019 7:00

Tgt Ion: 85 Resp: 2936

Ion Ratio Lower Upper

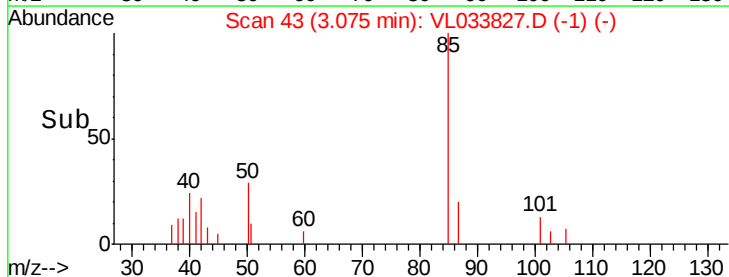
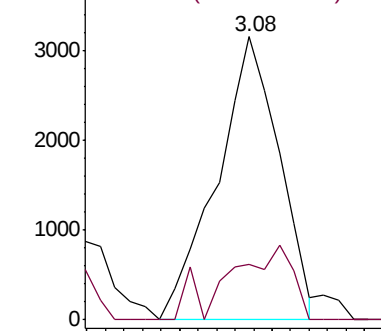
85 100

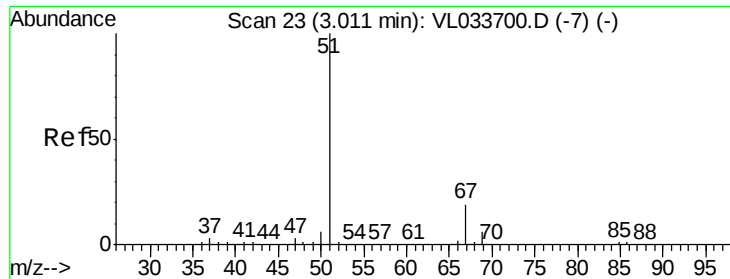
87 19.6 26.3 39.5#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

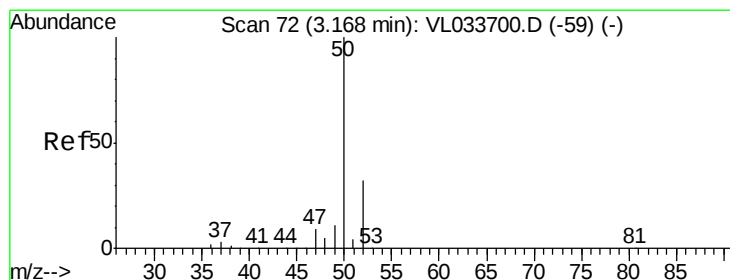
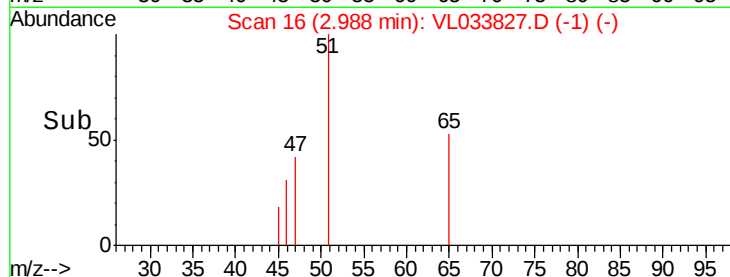
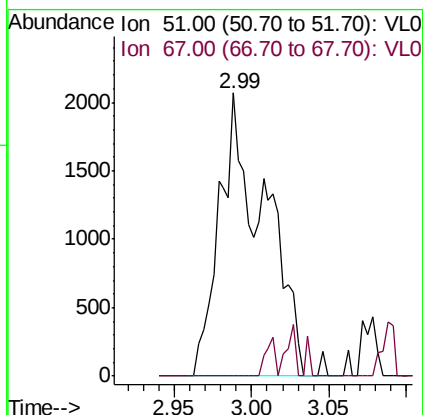
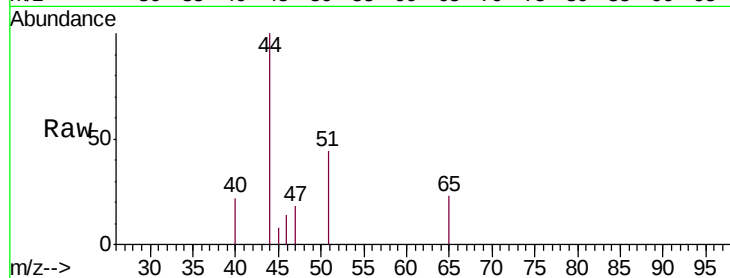




#3
Chlorodifluoromethane
Concen: 0.045 ppbv
RT: 2.99 min Scan# 16
Delta R.T. -0.02 min
Lab File: VL033827.D
Acq: 29 May 2019 7:00

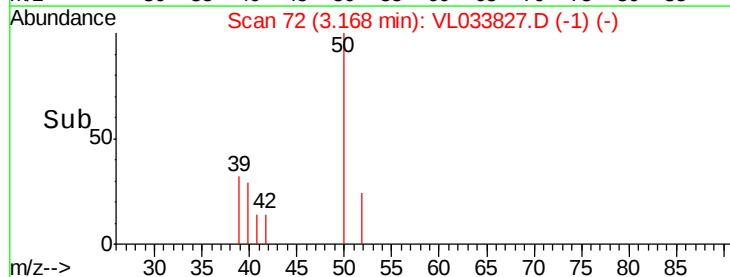
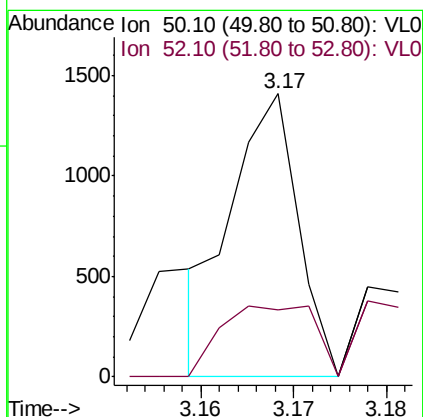
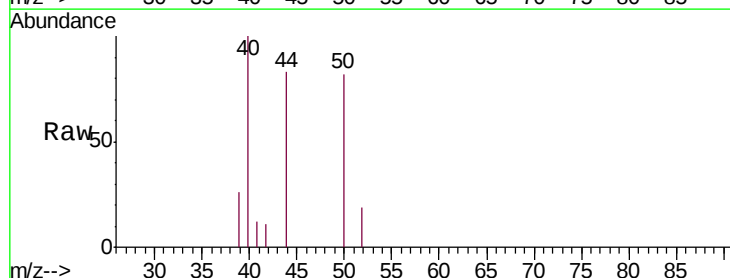
Instrument :
MSVOA_L
ClientSampleId :
BPS1-SG-3010-55DL

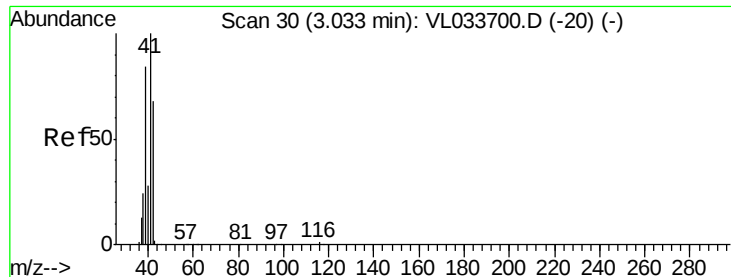
Tgt Ion: 51 Resp: 4227
Ion Ratio Lower Upper
51 100
67 7.6 15.6 23.4#



#4
Chloromethane
Concen: 0.013 ppbv
RT: 3.17 min Scan# 72
Delta R.T. 0.00 min
Lab File: VL033827.D
Acq: 29 May 2019 7:00

Tgt Ion: 50 Resp: 702
Ion Ratio Lower Upper
50 100
52 23.6 25.7 38.5#





#9

Propene

Concen: 1.611 ppbv

RT: 3.04 min Scan# 32

Delta R.T. 0.01 min

Lab File: VL033827.D

Acq: 29 May 2019 7:00

Instrument :

MSVOA_L

ClientSampleId :

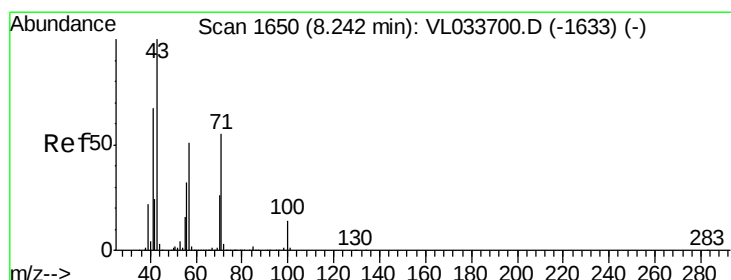
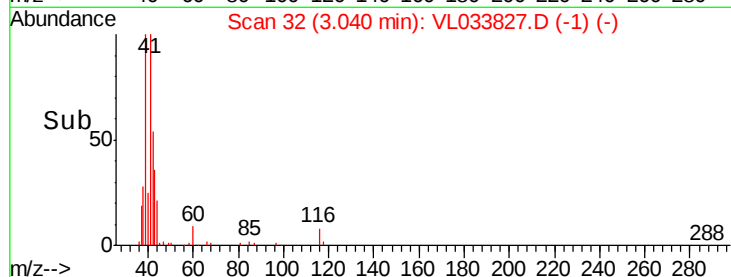
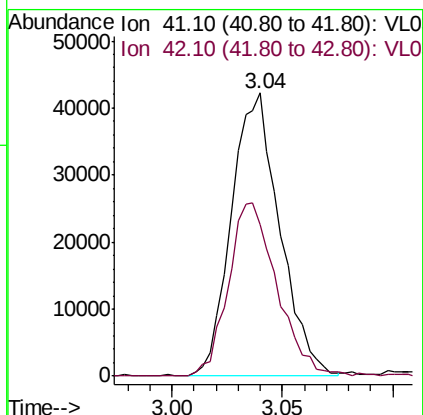
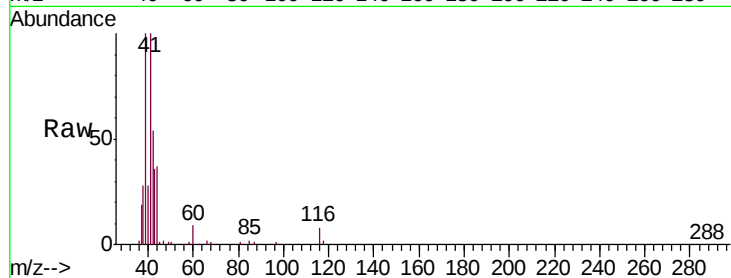
BPS1-SG-3010-55DL

Tgt Ion: 41 Resp: 64324

Ion Ratio Lower Upper

41 100

42 62.4 56.1 84.1



#10

Heptane

Concen: 0.013 ppbv

RT: 8.24 min Scan# 1649

Delta R.T. -0.00 min

Lab File: VL033827.D

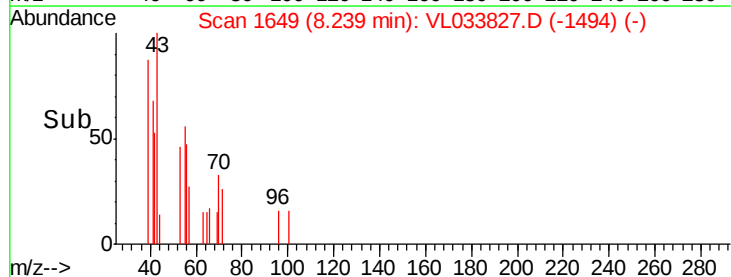
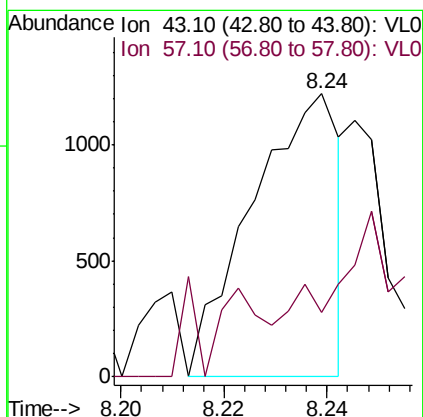
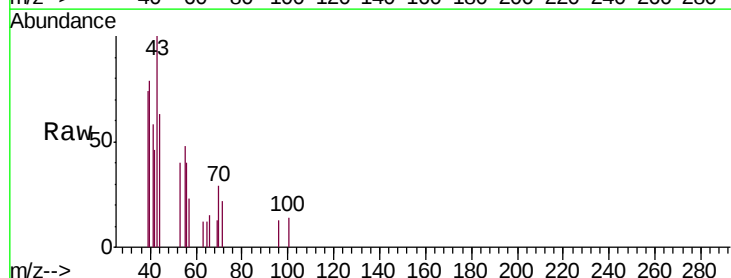
Acq: 29 May 2019 7:00

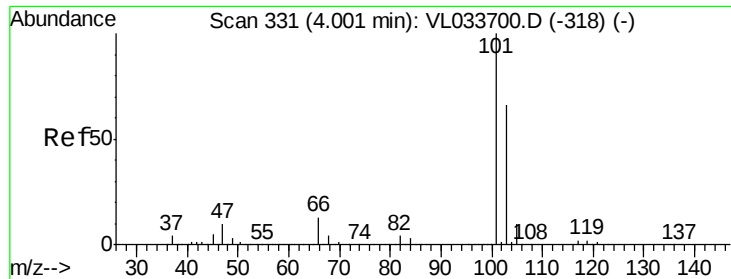
Tgt Ion: 43 Resp: 1433

Ion Ratio Lower Upper

43 100

57 0.0 41.4 62.0#

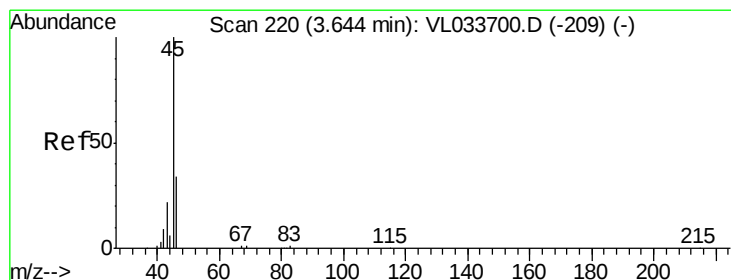
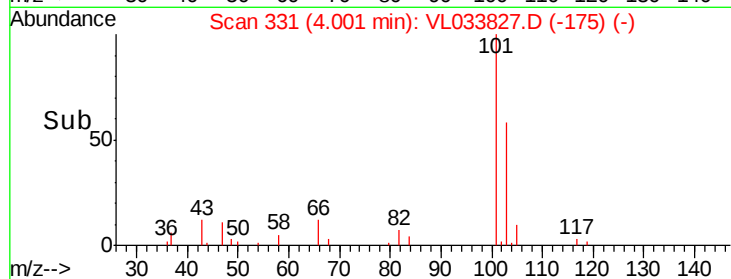
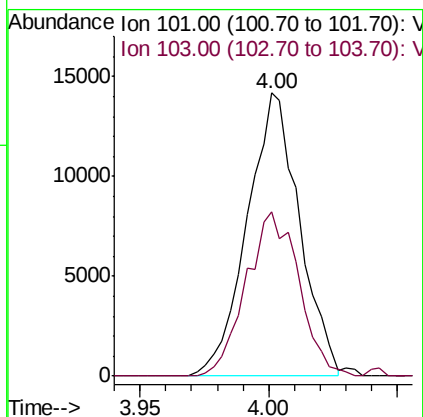
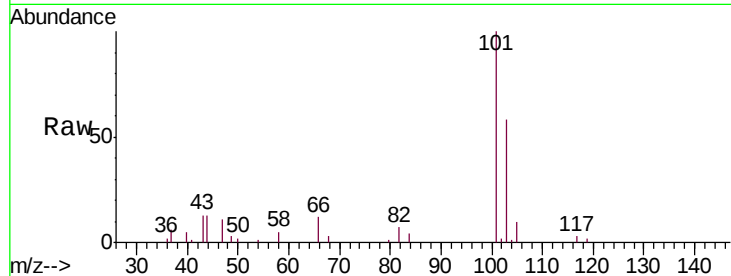




#11
 Trichlorofluoromethane
 Concen: 0.122 ppbv
 RT: 4.00 min Scan# 331
 Delta R.T. 0.00 min
 Lab File: VL033827.D
 Acq: 29 May 2019 7:00

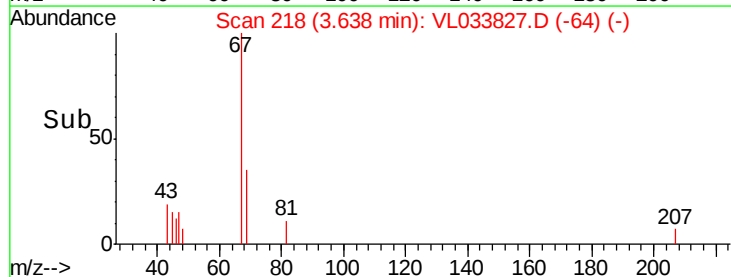
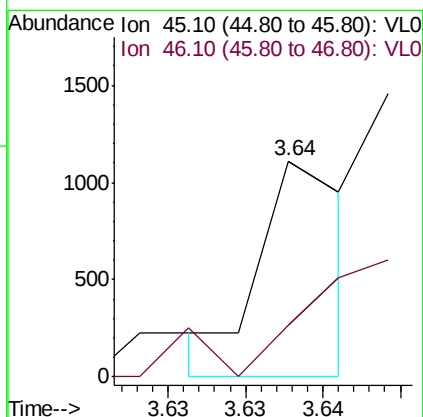
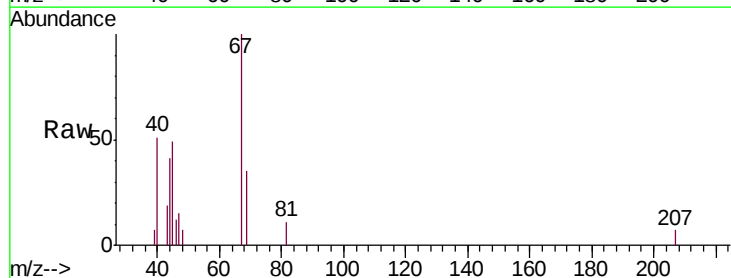
Instrument :
 MSVOA_L
 ClientSampleId :
 BPS1-SG-3010-55DL

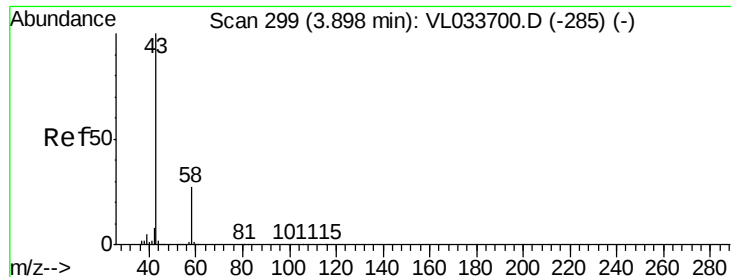
Tgt Ion: 101 Resp: 20071
 Ion Ratio Lower Upper
 101 100
 103 58.1 52.6 78.8



#13
 Ethanol
 Concen: 0.034 ppbv
 RT: 3.64 min Scan# 218
 Delta R.T. -0.01 min
 Lab File: VL033827.D
 Acq: 29 May 2019 7:00

Tgt Ion: 45 Resp: 440
 Ion Ratio Lower Upper
 45 100
 46 0.0 14.8 59.0#





#15

Acetone

Concen: 3.998 ppbv

RT: 3.90 min Scan# 299

Delta R.T. 0.00 min

Lab File: VL033827.D

Acq: 29 May 2019 7:00

Instrument :

MSVOA_L

ClientSampleId :

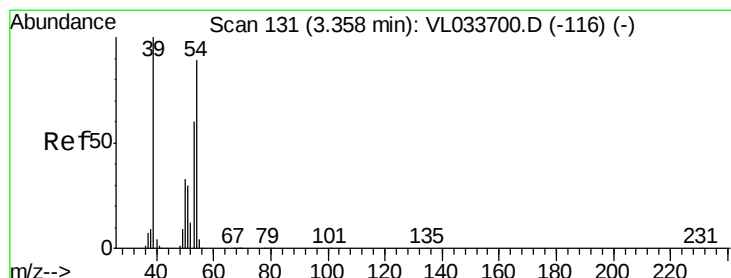
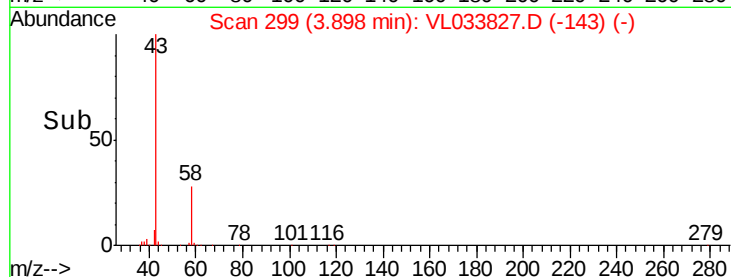
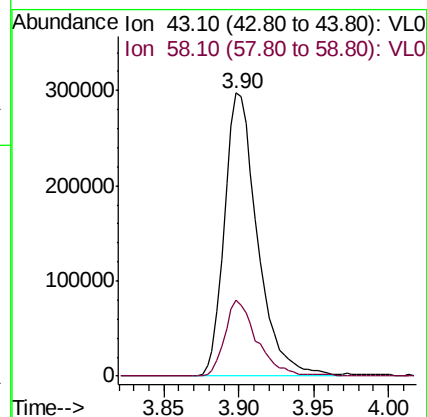
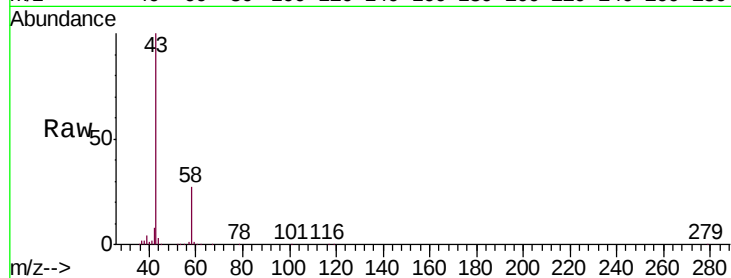
BPS1-SG-3010-55DL

Tgt Ion: 43 Resp: 454693

Ion Ratio Lower Upper

43 100

58 26.7 21.3 31.9



#16

1,3-Butadiene

Concen: 0.939 ppbv

RT: 3.34 min Scan# 126

Delta R.T. -0.02 min

Lab File: VL033827.D

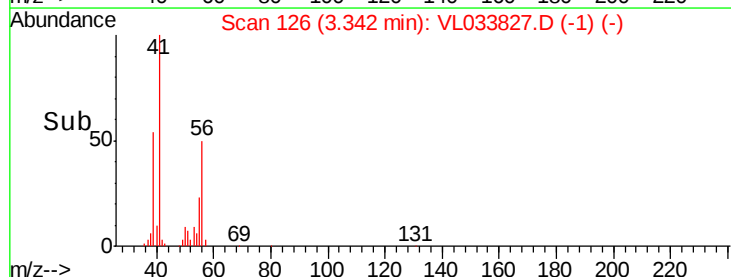
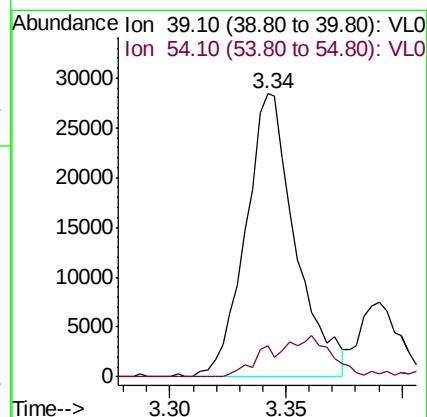
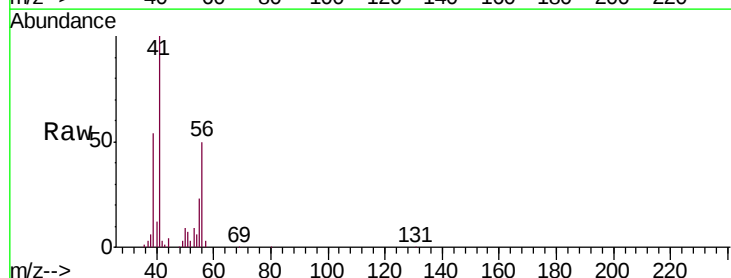
Acq: 29 May 2019 7:00

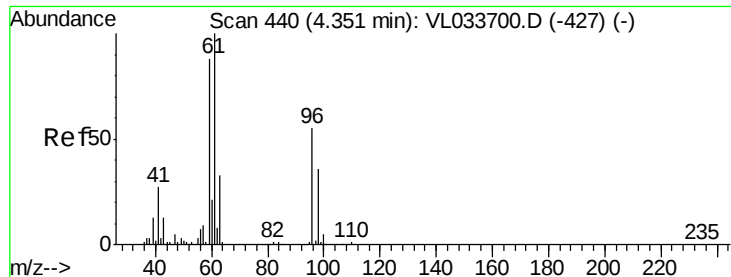
Tgt Ion: 39 Resp: 42512

Ion Ratio Lower Upper

39 100

54 19.0 69.0 103.6#





#17

tert-Butyl alcohol

Concen: 0.013 ppbv

RT: 4.38 min Scan# 448

Delta R.T. 0.03 min

Lab File: VL033827.D

Acq: 29 May 2019 7:00

Instrument :

MSVOA_L

ClientSampleId :

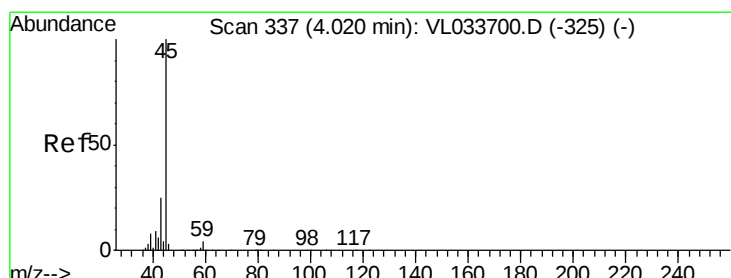
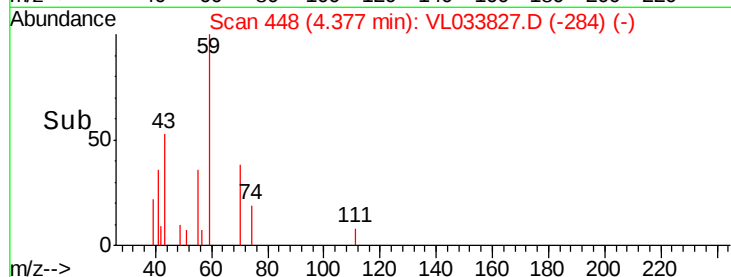
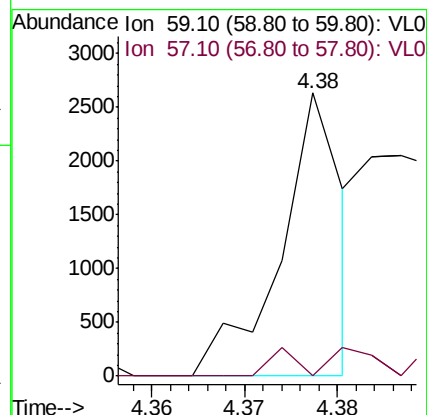
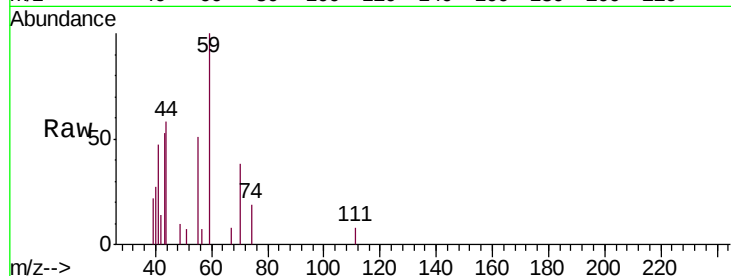
BPS1-SG-3010-55DL

Tgt Ion: 59 Resp: 1224

Ion Ratio Lower Upper

59 100

57 0.0 8.4 12.6#



#19

Isopropyl Alcohol

Concen: 0.033 ppbv

RT: 4.05 min Scan# 345

Delta R.T. 0.03 min

Lab File: VL033827.D

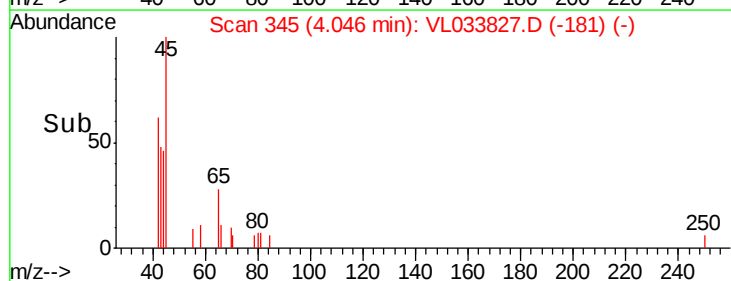
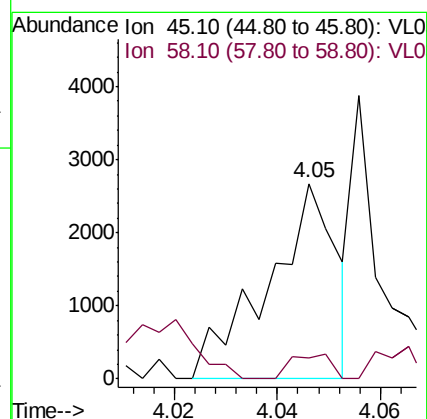
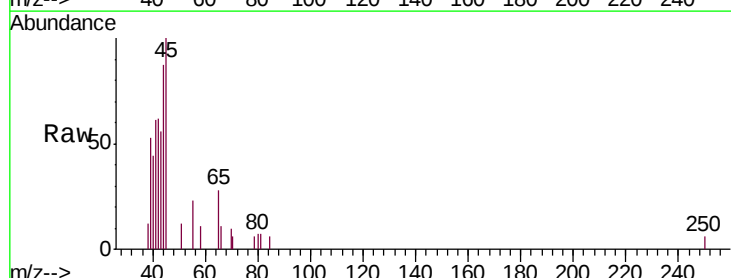
Acq: 29 May 2019 7:00

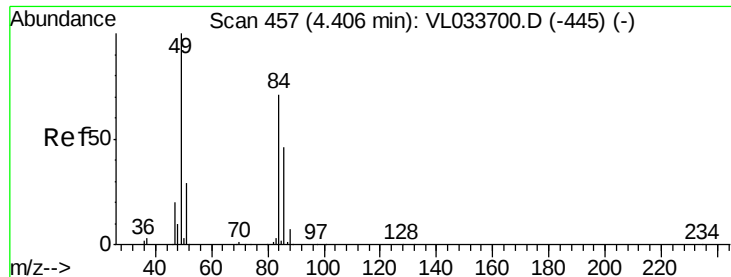
Tgt Ion: 45 Resp: 2452

Ion Ratio Lower Upper

45 100

58 0.0 1.6 2.4#





#20

Methylene Chloride

Concen: 0.057 ppbv

RT: 4.40 min Scan# 455

Delta R.T. -0.01 min

Lab File: VL033827.D

Acq: 29 May 2019 7:00

Instrument :

MSVOA_L

ClientSampleId :

BPS1-SG-3010-55DL

Tgt Ion: 84 Resp: 2478

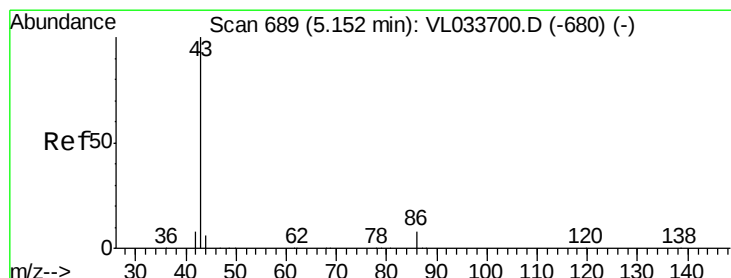
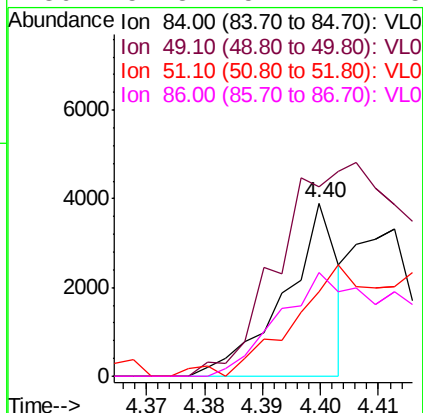
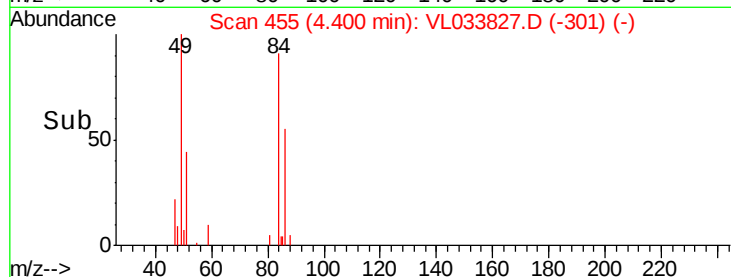
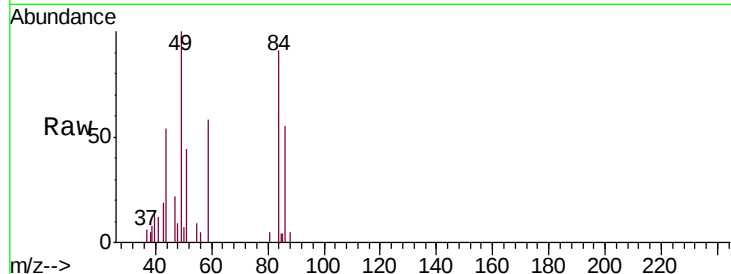
Ion Ratio Lower Upper

84 100

49 105.2 112.8 169.2#

51 42.4 33.4 50.0

86 57.8 51.7 77.5



#23

Vinyl Acetate

Concen: 0.013 ppbv

RT: 5.14 min Scan# 686

Delta R.T. -0.01 min

Lab File: VL033827.D

Acq: 29 May 2019 7:00

Tgt Ion: 43 Resp: 2007

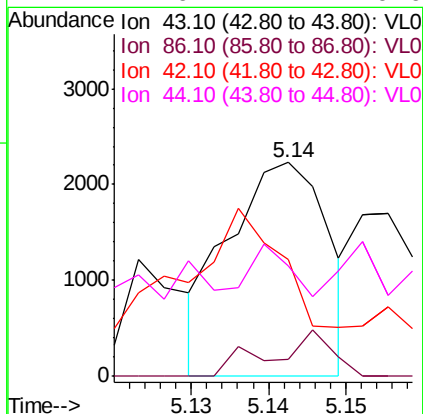
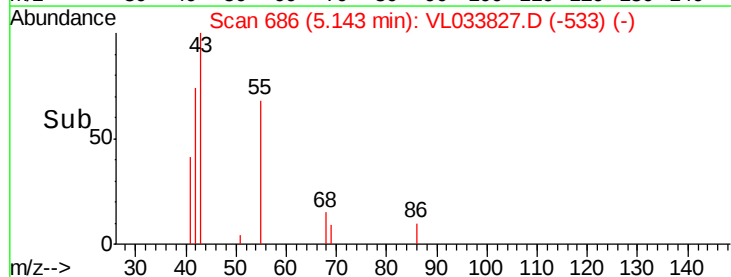
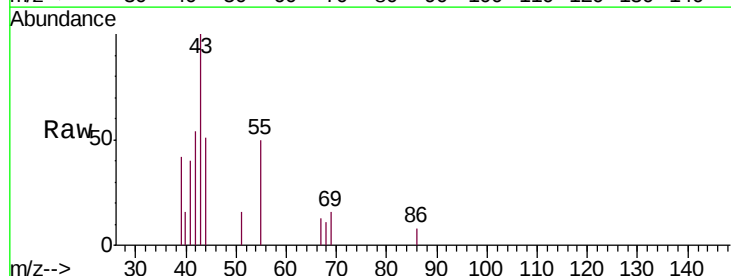
Ion Ratio Lower Upper

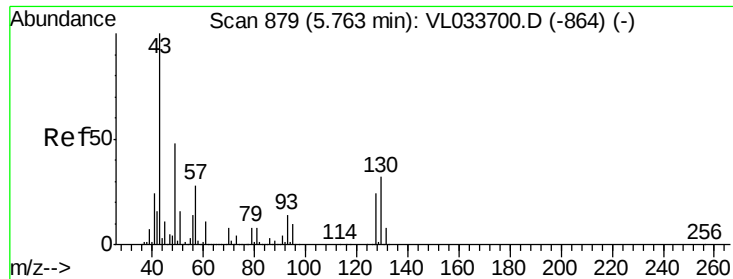
43 100

86 17.1 6.0 9.0#

42 69.6 7.5 11.3#

44 4.6 4.4 6.6

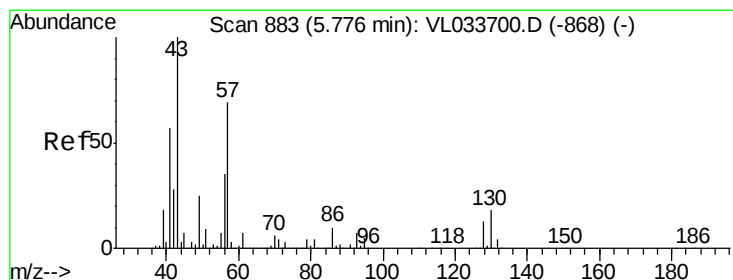
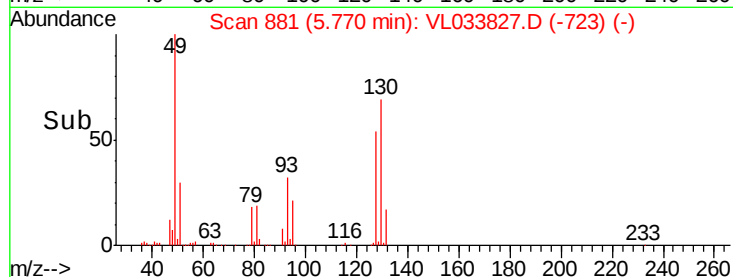
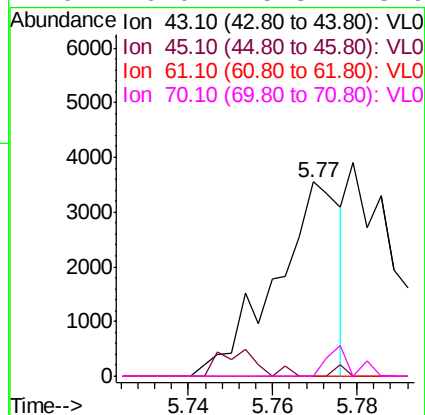
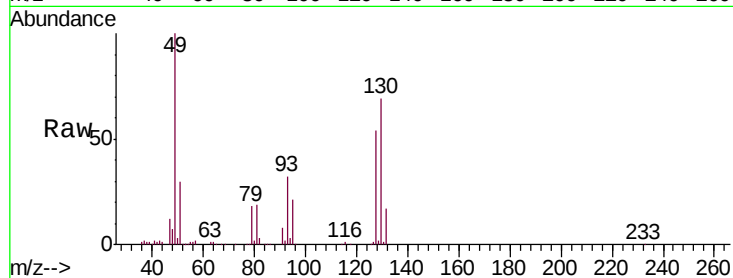




#25
Ethyl Acetate
Concen: 0.019 ppbv
RT: 5.77 min Scan# 881
Delta R.T. 0.01 min
Lab File: VL033827.D
Acq: 29 May 2019 7:00

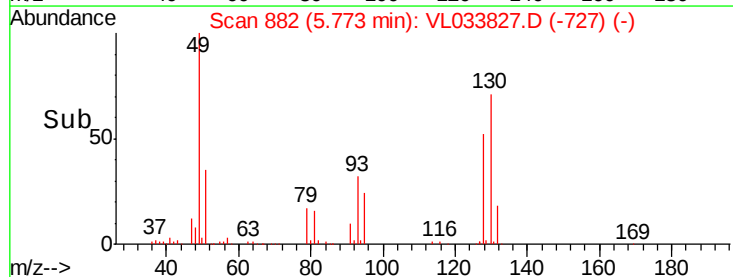
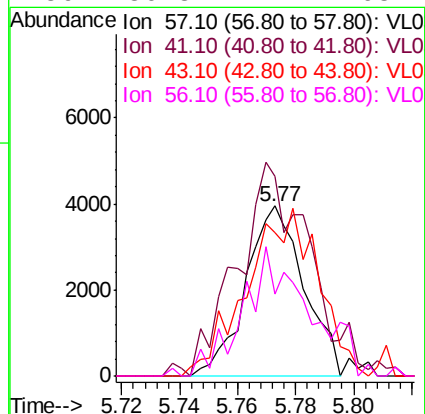
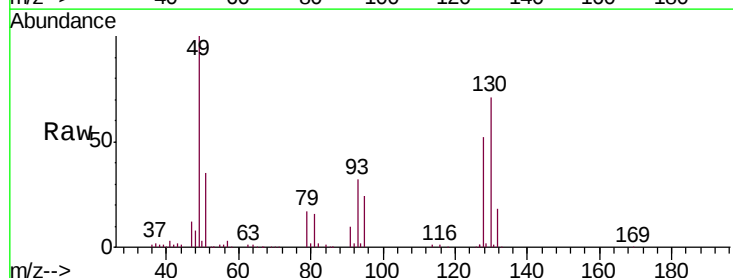
Instrument :
MSVOA_L
ClientSampleId :
BPS1-SG-3010-55DL

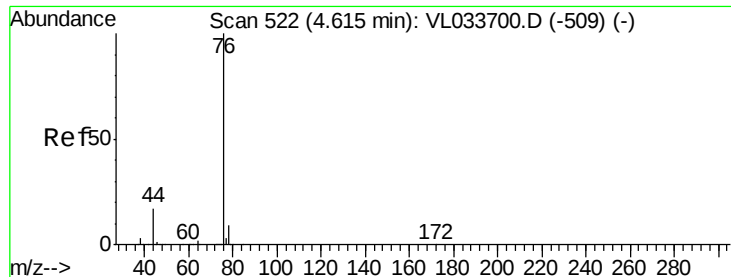
Tgt Ion:	43	Resp:	3782
Ion	Ratio	Lower	Upper
43	100		
45	8.4	7.9	11.9
61	0.0	7.7	11.5#
70	0.0	5.8	8.6#



#26
Hexane
Concen: 0.064 ppbv
RT: 5.77 min Scan# 882
Delta R.T. -0.00 min
Lab File: VL033827.D
Acq: 29 May 2019 7:00

Tgt Ion:	57	Resp:	5503
Ion	Ratio	Lower	Upper
57	100		
41	157.9	69.8	104.6#
43	124.5	181.8	272.6#
56	86.3	42.1	63.1#

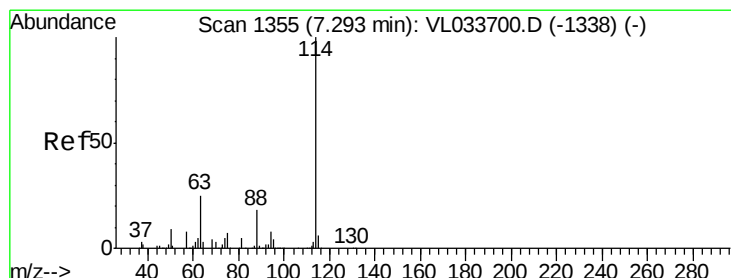
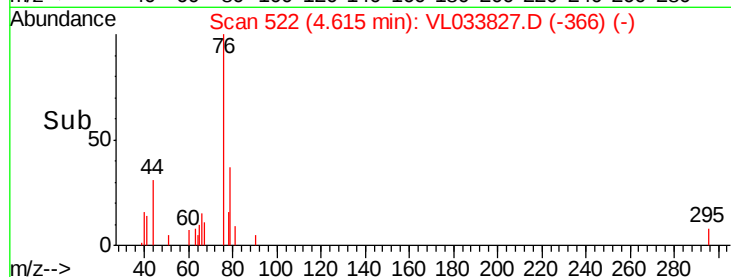
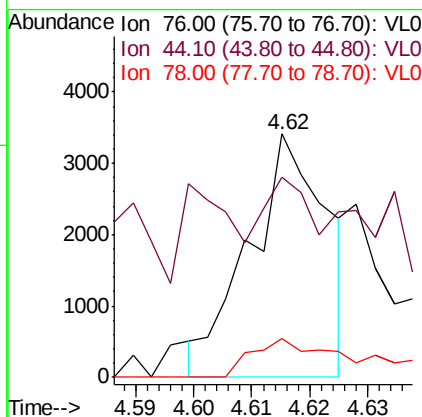
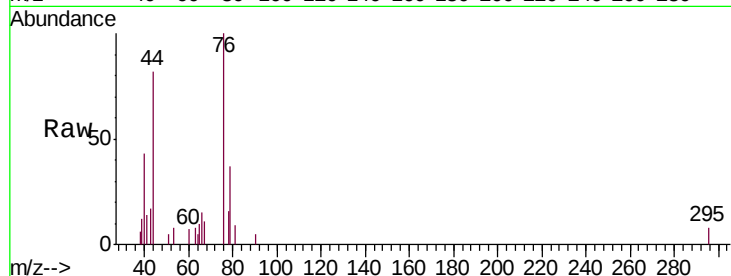




#27
Carbon Disulfide
Concen: 0.027 ppbv
RT: 4.62 min Scan# 522
Delta R.T. 0.00 min
Lab File: VL033827.D
Acq: 29 May 2019 7:00

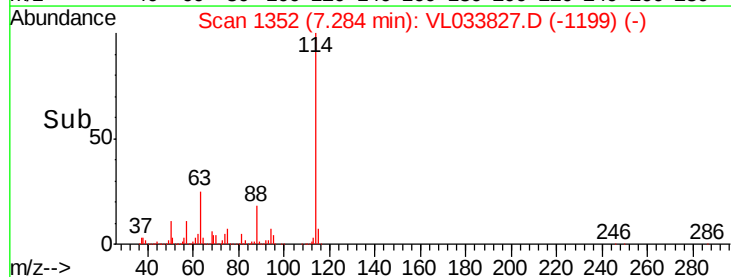
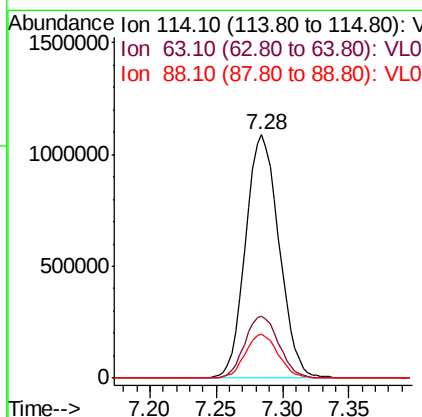
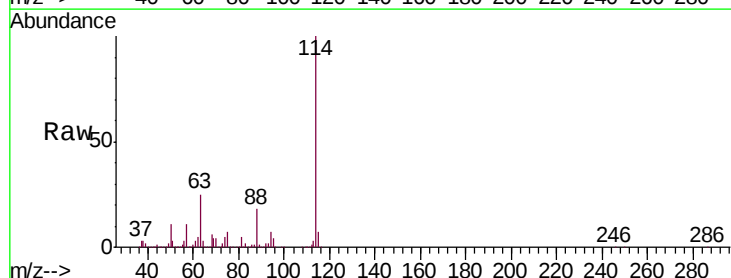
Instrument :
MSVOA_L
ClientSampleId :
BPS1-SG-3010-55DL

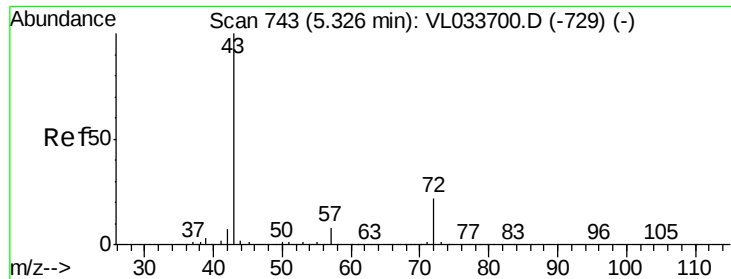
Tgt Ion: 76 Resp: 3141
Ion Ratio Lower Upper
76 100
44 0.0 13.8 20.8#
78 24.1 7.4 11.0#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.28 min Scan# 1352
Delta R.T. -0.01 min
Lab File: VL033827.D
Acq: 29 May 2019 7:00

Tgt Ion: 114 Resp: 1919491
Ion Ratio Lower Upper
114 100
63 26.1 20.9 31.3
88 17.8 14.3 21.5

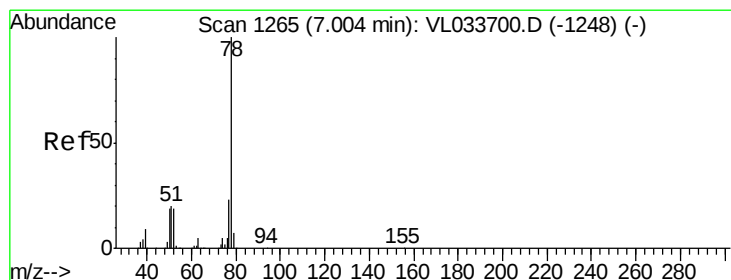
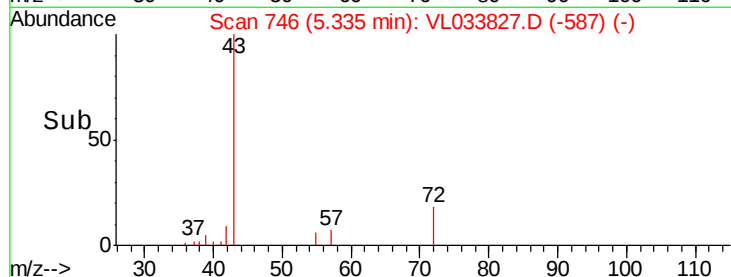
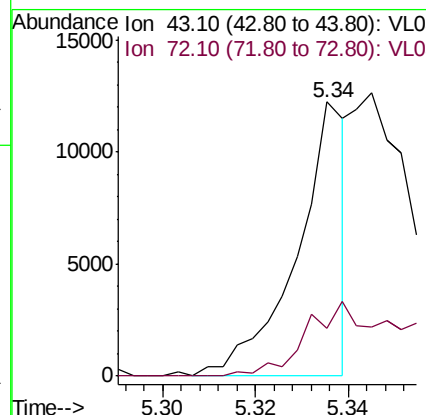
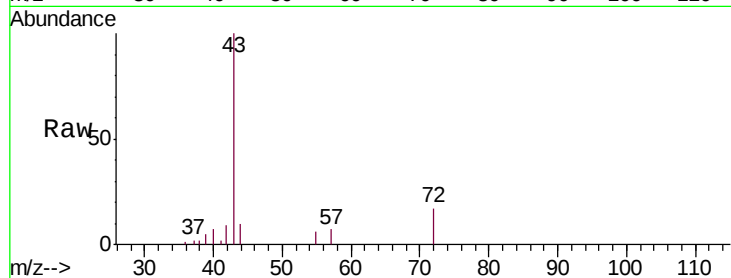




#34
2-Butanone
Concen: 0.076 ppbv
RT: 5.34 min Scan# 746
Delta R.T. 0.01 min
Lab File: VL033827.D
Acq: 29 May 2019 7:00

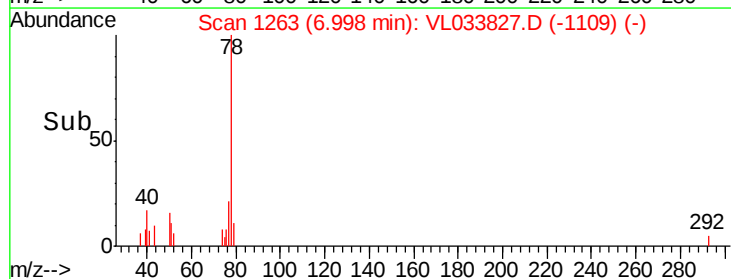
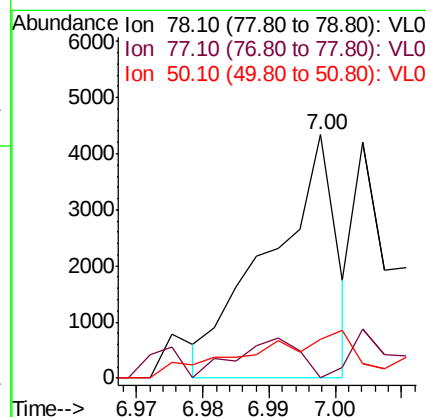
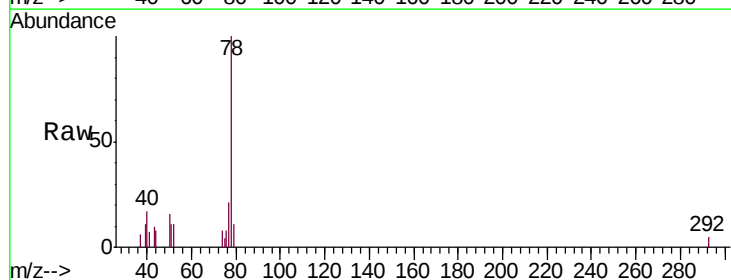
Instrument :
MSVOA_L
ClientSampleId :
BPS1-SG-3010-55DL

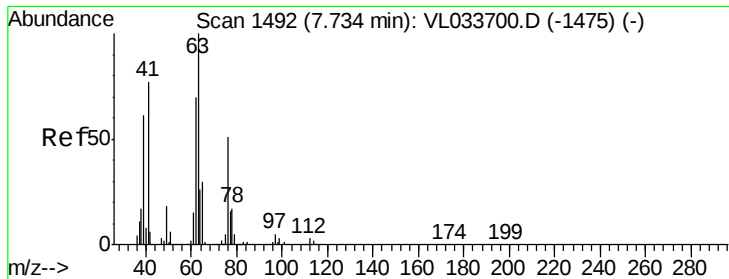
Tgt Ion: 43 Resp: 9001
Ion Ratio Lower Upper
43 100
72 54.5 17.8 26.6#



#36
Benzene
Concen: 0.017 ppbv
RT: 7.00 min Scan# 1263
Delta R.T. -0.01 min
Lab File: VL033827.D
Acq: 29 May 2019 7:00

Tgt Ion: 78 Resp: 3039
Ion Ratio Lower Upper
78 100
77 0.0 18.4 27.6#
50 11.9 15.5 23.3#

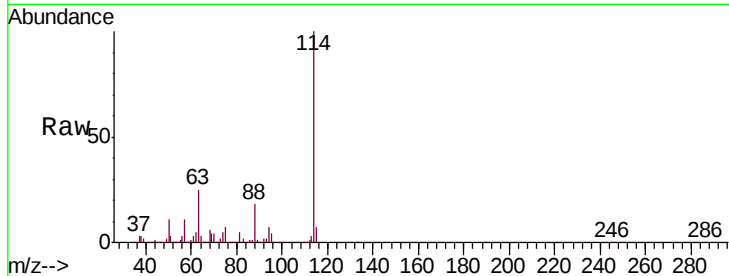




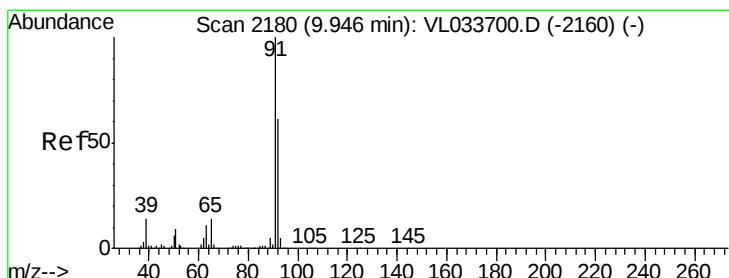
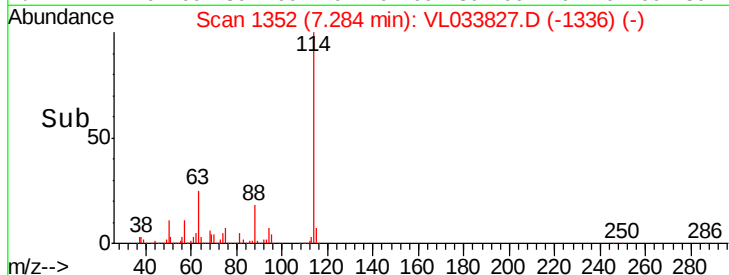
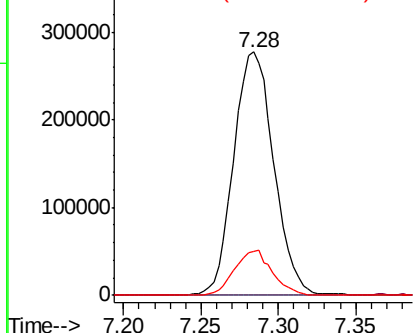
#39
 1,2-Dichloropropane
 Concen: 7.674 ppbv
 RT: 7.28 min Scan# 1352
 Delta R.T. -0.45 min
 Lab File: VL033827.D
 Acq: 29 May 2019 7:00

Instrument :
 MSVOA_L
 ClientSampleId :
 BPS1-SG-3010-55DL

Tgt Ion	Ratio	Lower	Upper
63	100		
41	0.0	61.5	92.3#
62	17.9	56.2	84.4#

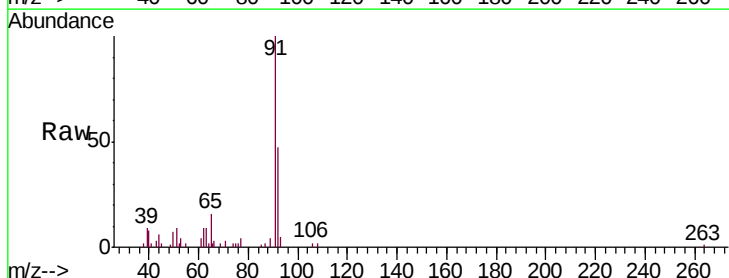


Abundance Ion 63.10 (62.80 to 63.80): VL0
 Ion 41.10 (40.80 to 41.80): VL0
 Ion 62.10 (61.80 to 62.80): VL0

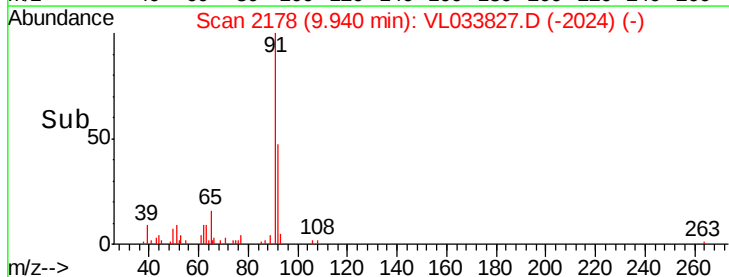
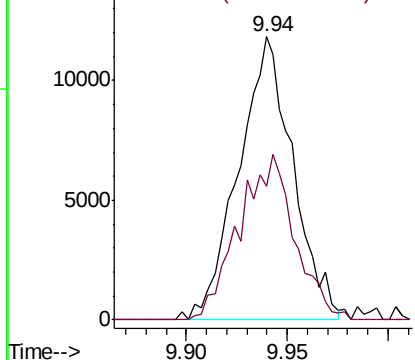


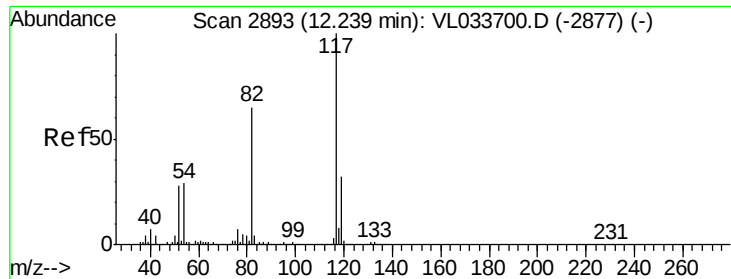
#53
 Toluene
 Concen: 0.118 ppbv
 RT: 9.94 min Scan# 2178
 Delta R.T. -0.01 min
 Lab File: VL033827.D
 Acq: 29 May 2019 7:00

Tgt Ion	Ratio	Lower	Upper
91	100		
92	60.1	47.6	71.4



Abundance Ion 91.10 (90.80 to 91.80): VL0
 Ion 92.10 (91.80 to 92.80): VL0

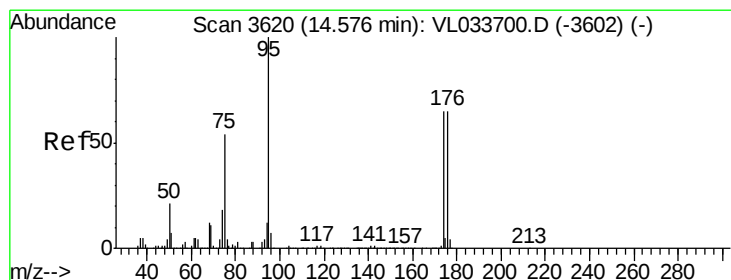
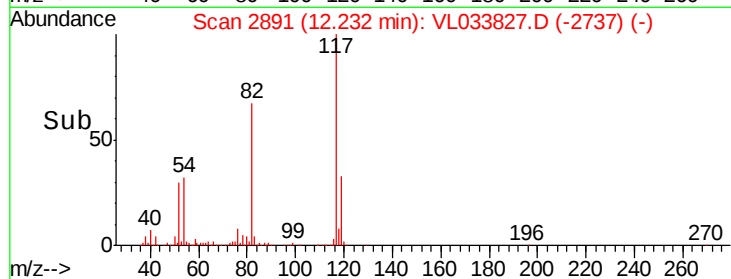
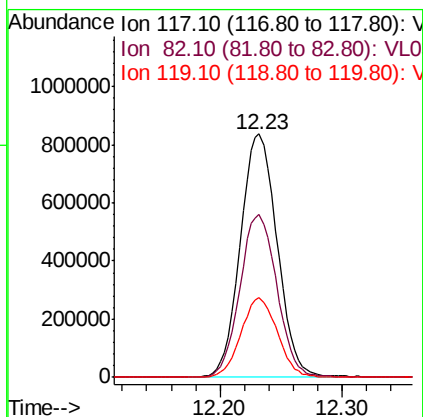
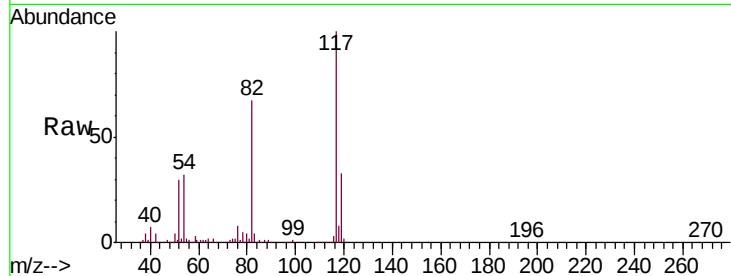




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.23 min Scan# 2891
Delta R.T. -0.01 min
Lab File: VL033827.D
Acq: 29 May 2019 7:00

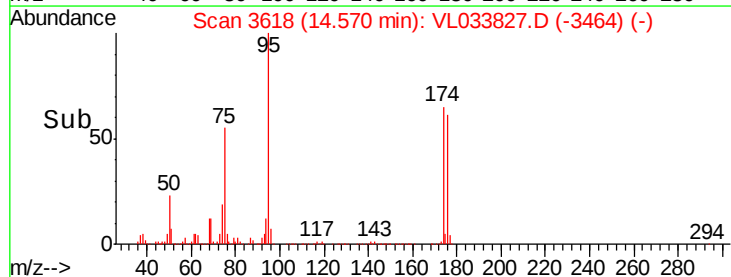
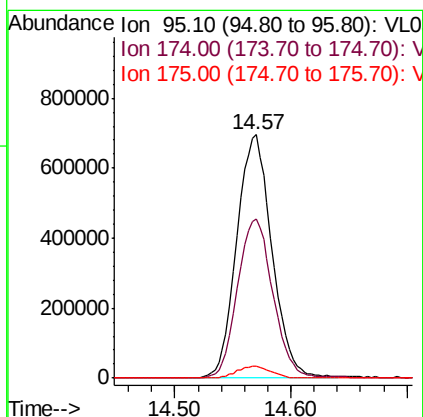
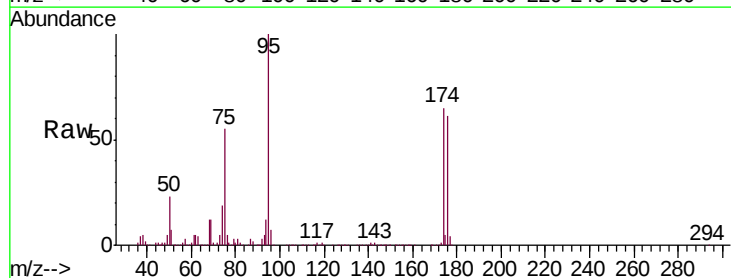
Instrument :
MSVOA_L
ClientSampleId :
BPS1-SG-3010-55DL

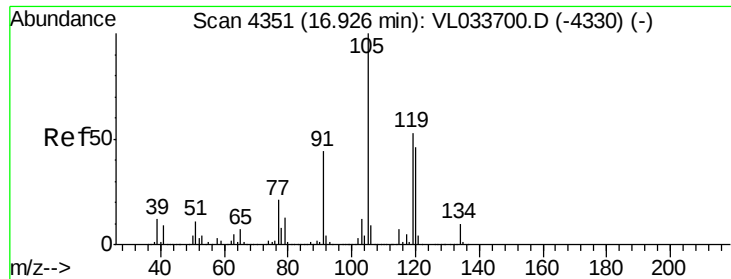
Tgt Ion: 117 Resp: 1740822
Ion Ratio Lower Upper
117 100
82 67.4 49.4 74.0
119 32.3 24.9 37.3



#68
1-Bromo-4-Fluorobenzene
Concen: 10.371 ppbv
RT: 14.57 min Scan# 3618
Delta R.T. -0.01 min
Lab File: VL033827.D
Acq: 29 May 2019 7:00

Tgt Ion: 95 Resp: 1463588
Ion Ratio Lower Upper
95 100
174 66.5 53.9 80.9
175 4.8 3.8 5.8





#74
 1,2,4-Trimethylbenzene
 Concen: 0.013 ppbv
 RT: 16.91 min Scan# 4347
 Delta R.T. -0.01 min
 Lab File: VL033827.D
 Acq: 29 May 2019 7:00

Instrument :
 MSVOA_L
 ClientSampleId :
 BPS1-SG-3010-55DL

Tgt Ion:	105	Resp:	3320
Ion	Ratio	Lower	Upper
105	100		
120	60.5	36.8	55.2#
91	10.7	35.4	53.0#
77	0.0	16.8	25.2#

