

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF032116\
 Data File : BF085627.D
 Acq On : 21 Mar 2016 17:37
 Operator : UM/SJ
 Sample : H1816-05MSD
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TRACK-D-GRID-9BMSD

Quant Time: Mar 22 00:06:17 2016
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF031816.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Mar 18 23:31:39 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.85	152	126216	20.00	ng	-0.01
21) Naphthalene-d8	8.13	136	516396	20.00	ng	-0.01
38) Acenaphthene-d10	9.89	164	236608	20.00	ng	-0.01
63) Phenanthrene-d10	11.36	188	438820	20.00	ng	-0.02
75) Chrysene-d12	14.00	240	331427	20.00	ng	-0.01
86) Perylene-d12	15.42	264	225554	20.00	ng	-0.02

System Monitoring Compounds

5) 2-Fluorophenol	5.46	112	885490	117.84	ng	0.01
7) Phenol-d6	6.48	99	983745	102.07	ng	-0.01
23) Nitrobenzene-d5	7.41	82	701056	78.80	ng	-0.02
41) 2,4,6-Tribromophenol	10.68	330	315471	136.11	ng	-0.01
44) 2-Fluorobiphenyl	9.20	172	1229581	89.97	ng	-0.02
78) Terphenyl-d14	12.95	244	1183983	85.96	ng	-0.01

Target Compounds

						Qvalue
2) 1,4-Dioxane	2.62	88	123803	33.89	ng	98
3) Pyridine	3.33	79	250599	27.94	ng	99
4) n-Nitrosodimethylamine	3.25	42	140750	37.59	ng	96
6) Aniline	6.50	93	244438	18.88	ng	# 85
8) 2-Chlorophenol	6.63	128	334701	38.50	ng	99
9) Benzaldehyde	6.39	77	37594	5.67	ng	99
10) Phenol	6.49	94	349902	31.88	ng	99
11) bis(2-Chloroethyl)ether	6.58	93	331137	40.01	ng	99
12) 1,3-Dichlorobenzene	7.02	146	320237	33.81	ng	99
13) 1,4-Dichlorobenzene	6.86	146	332766	34.44	ng	99
14) 1,2-Dichlorobenzene	7.02	146	320454	37.35	ng	96
15) Benzyl Alcohol	6.98	79	260453	39.45	ng	99
16) 2,2'-oxybis(1-Chloropropan	7.12	45	404489	37.17	ng	98
17) 2-Methylphenol	7.10	107	266995	37.05	ng	99
18) Hexachloroethane	7.35	117	126570	36.28	ng	# 81
19) n-Nitroso-di-n-propylamine	7.26	70	210211	36.51	ng	92
20) 3+4-Methylphenols	7.26	107	311826	37.36	ng	97
22) Acetophenone	7.26	105	437496	35.70	ng	# 96
24) Nitrobenzene	7.43	77	385801	39.62	ng	93
25) Isophorone	7.67	82	659359	37.02	ng	96
26) 2-Nitrophenol	7.75	139	186831	38.82	ng	93
27) 2,4-Dimethylphenol	7.78	122	298590	35.08	ng	99
28) bis(2-Chloroethoxy)methane	7.88	93	390349	38.53	ng	98
29) 2,4-Dichlorophenol	7.99	162	280875	39.96	ng	97
30) 1,2,4-Trichlorobenzene	8.07	180	288247	36.61	ng	97
31) Naphthalene	8.15	128	1034188	39.68	ng	100
32) Benzoic acid	7.91	122	187193	26.31	ng	98
33) 4-Chloroaniline	8.20	127	166268	15.56	ng	# 94
34) Hexachlorobutadiene	8.26	225	145232	34.62	ng	99
35) Caprolactam	8.57	113	50731	20.98	ng	95
36) 4-Chloro-3-methylphenol	8.69	107	297432	36.24	ng	100
37) 2-Methylnaphthalene	8.84	142	656427	41.32	ng	97
39) 1,2,4,5-Tetrachlorobenzene	9.01	216	252041	35.12	ng	98
40) Hexachlorocyclopentadiene	9.00	237	251435	77.73	ng	98

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF032116\
 Data File : BF085627.D
 Acq On : 21 Mar 2016 17:37
 Operator : UM/SJ
 Sample : H1816-05MSD
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TRACK-D-GRID-9BMSD

Quant Time: Mar 22 00:06:17 2016
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF031816.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Mar 18 23:31:39 2016
 Response via : Initial Calibration

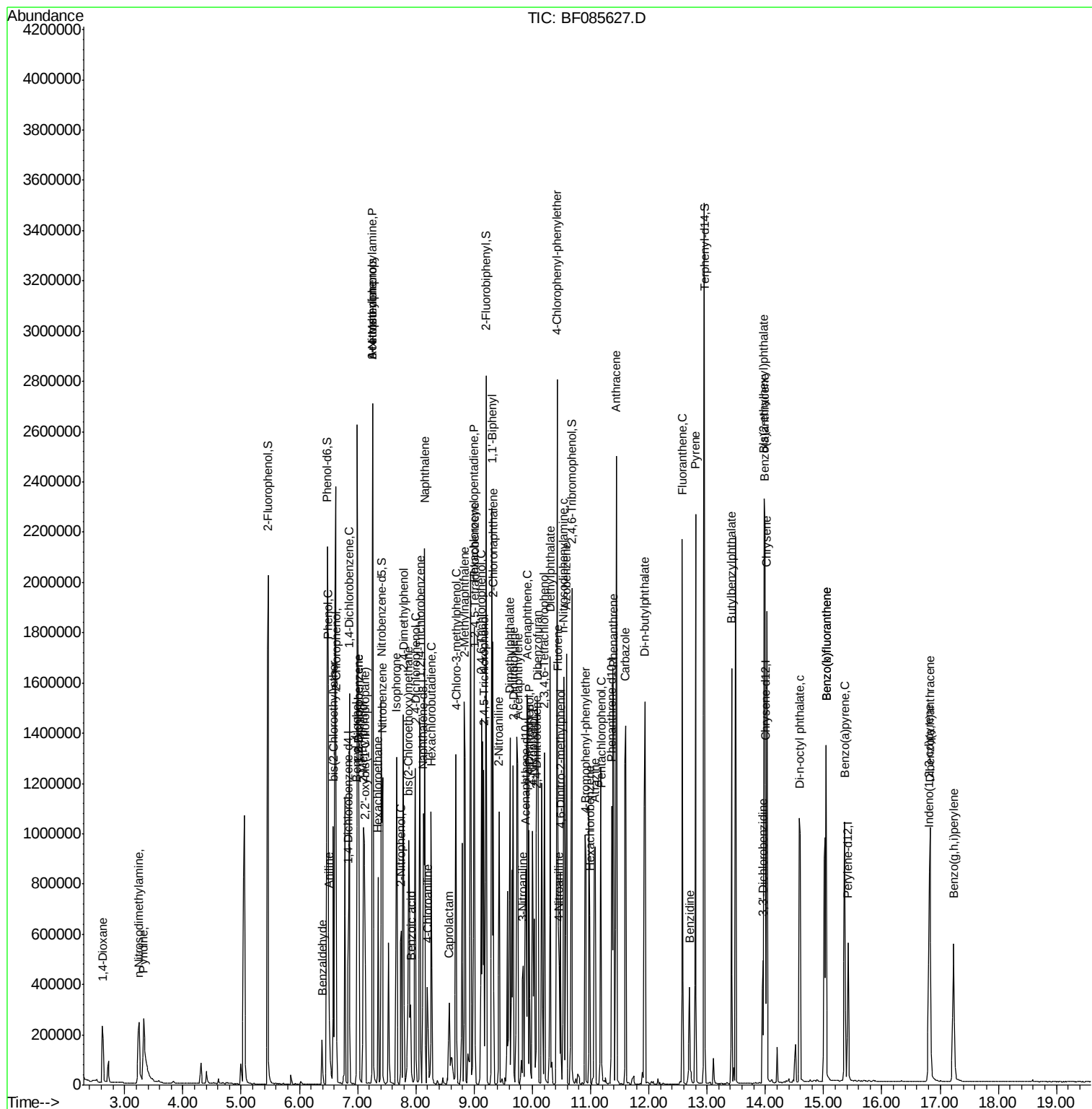
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) 2,4,6-Trichlorophenol	9.12	196	196662	40.03	ng	99
43) 2,4,5-Trichlorophenol	9.17	196	197595	39.52	ng	# 91
45) 1,1'-Biphenyl	9.30	154	724656	35.50	ng	98
46) 2-Chloronaphthalene	9.33	162	544473	36.52	ng	92
47) 2-Nitroaniline	9.43	65	196766	43.63	ng	89
48) Acenaphthylene	9.75	152	963065	39.91	ng	98
49) Dimethylphthalate	9.61	163	726866	40.71	ng	99
50) 2,6-Dinitrotoluene	9.67	165	154279	40.93	ng	90
51) Acenaphthene	9.92	154	669651	44.23	ng	99
52) 3-Nitroaniline	9.84	138	120752	25.58	ng	# 80
53) 2,4-Dinitrophenol	9.94	184	151549	65.63	ng	99
54) Dibenzofuran	10.09	168	839725	45.54	ng	96
55) 4-Nitrophenol	10.00	139	220047	60.31	ng	91
56) 2,4-Dinitrotoluene	10.07	165	194702	39.45	ng	# 47
57) Fluorene	10.44	166	621696	40.46	ng	100
58) 2,3,4,6-Tetrachlorophenol	10.21	232	155772	43.27	ng	97
59) Diethylphthalate	10.31	149	723213	40.74	ng	99
60) 4-Chlorophenyl-phenylether	10.42	204	307319	40.95	ng	90
61) 4-Nitroaniline	10.46	138	169966	36.52	ng	91
62) Azobenzene	10.58	77	761043	44.68	ng	95
64) 4,6-Dinitro-2-methylphenol	10.48	198	100437	35.77	ng	89
65) n-Nitrosodiphenylamine	10.54	169	530019	38.77	ng	99
66) 4-Bromophenyl-phenylether	10.92	248	184921	42.18	ng	# 87
67) Hexachlorobenzene	10.98	284	186615	40.07	ng	# 85
68) Atrazine	11.08	200	191554	46.03	ng	97
69) Pentachlorophenol	11.18	266	205268	72.60	ng	99
70) Phenanthrene	11.40	178	959859	41.48	ng	99
71) Anthracene	11.44	178	954851	39.36	ng	99
72) Carbazole	11.60	167	869086	41.52	ng	98
73) Di-n-butylphthalate	11.93	149	1099679	41.96	ng	99
74) Fluoranthene	12.57	202	878625	36.27	ng	97
76) Benzidine	12.70	184	170990	15.34	ng	98
77) Pyrene	12.80	202	882190	37.07	ng	99
79) Butylbenzylphthalate	13.42	149	396571	34.96	ng	# 75
80) Benzo(a)anthracene	13.99	228	742934	38.61	ng	100
81) 3,3'-Dichlorobenzidine	13.96	252	135932	19.28	ng	# 96
82) Chrysene	14.03	228	579009	31.28	ng	100
83) Bis(2-ethylhexyl)phthalate	13.98	149	471897	33.49	ng	# 99
84) Di-n-octyl phthalate	14.60	149	778629	33.90	ng	98
85) Indeno(1,2,3-cd)pyrene	16.81	276	545468	35.27	ng	99
87) Benzo(h)fluoranthene	15.04	252	1100914	74.80	ng	99
88) Benzo(k)fluoranthene	15.04	252	1101650	90.86	ng	# 98
89) Benzo(a)pyrene	15.36	252	497913	39.91	ng	99
90) Dibenzo(a,h)anthracene	16.83	278	454560	43.68	ng	97
91) Benzo(g,h,i)perylene	17.24	276	467185	46.38	ng	96

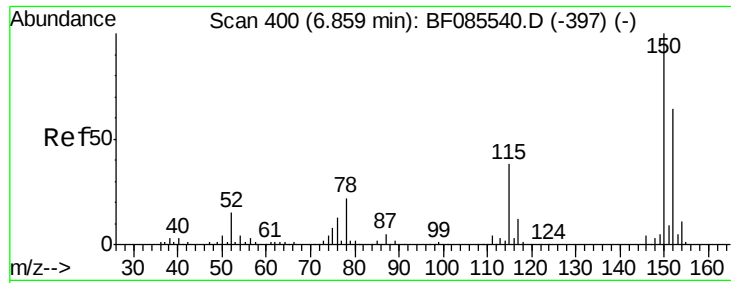
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF032116\
Data File : BF085627.D
Acq On : 21 Mar 2016 17:37
Operator : UM/SJ
Sample : H1816-05MSD
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TRACK-D-GRID-9BMSD

Quant Time: Mar 22 00:06:17 2016
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF031816.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Mar 18 23:31:39 2016
Response via : Initial Calibration

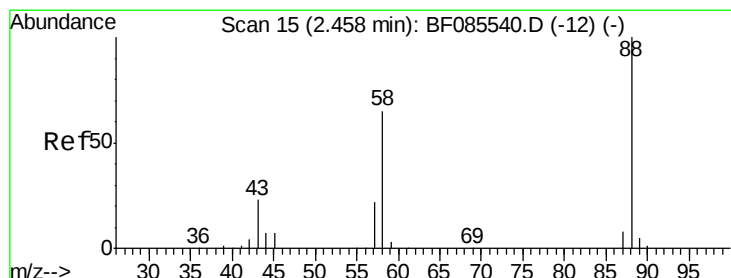
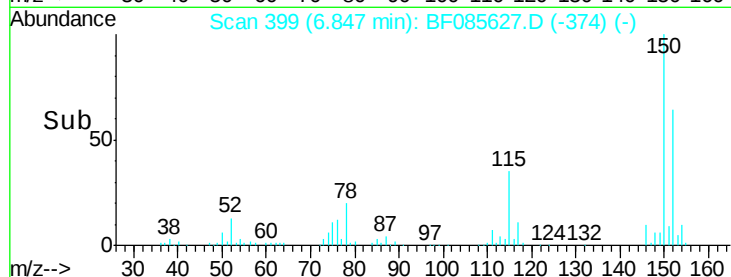
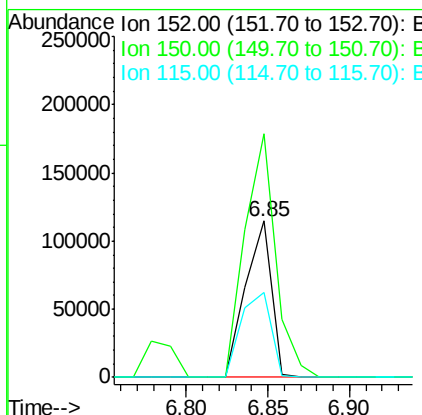
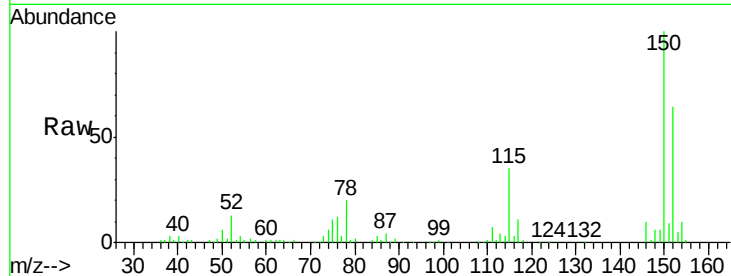




#1
 1,4-Dichlorobenzene-d4
 Concen: 20.00 ng
 RT: 6.85 min Scan# 399
 Delta R.T. -0.01 min
 Lab File: BF085627.D
 Acq: 21 Mar 2016 17:37

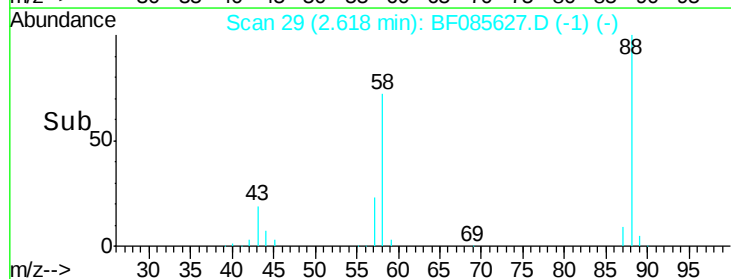
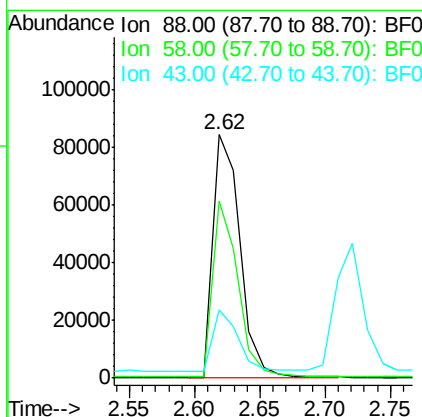
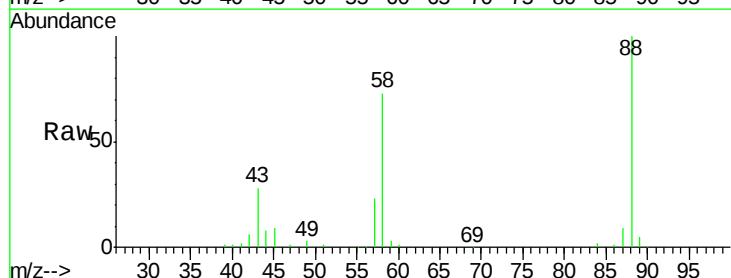
Instrument :
 BNA_F
 ClientSampleId :
 TRACK-D-GRID-9BMSD

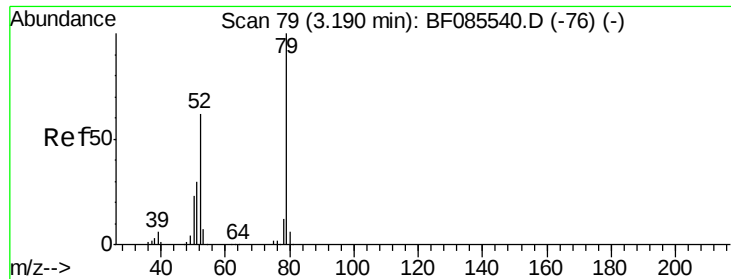
Tgt Ion: 152 Resp: 126216
 Ion Ratio Lower Upper
 152 100
 150 155.7 124.2 186.2
 115 54.3 47.0 70.6



#2
 1,4-Dioxane
 Concen: 33.89 ng
 RT: 2.62 min Scan# 29
 Delta R.T. 0.16 min
 Lab File: BF085627.D
 Acq: 21 Mar 2016 17:37

Tgt Ion: 88 Resp: 123803
 Ion Ratio Lower Upper
 88 100
 58 66.2 54.2 81.2
 43 22.6 19.3 28.9

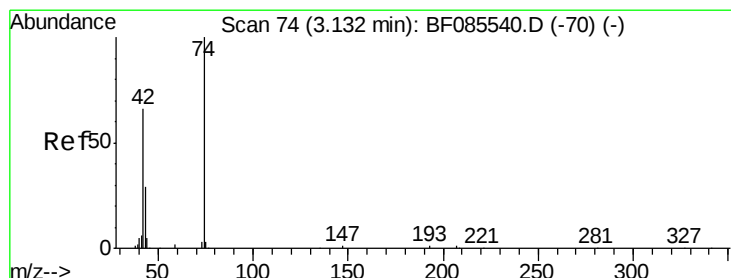
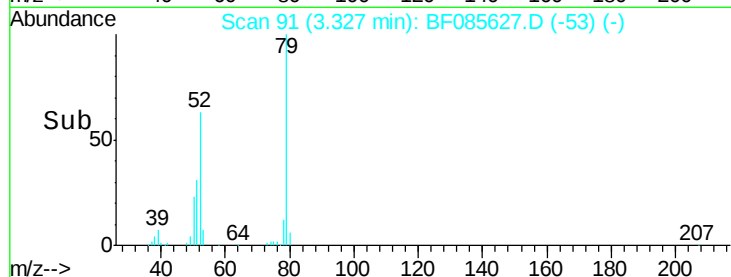
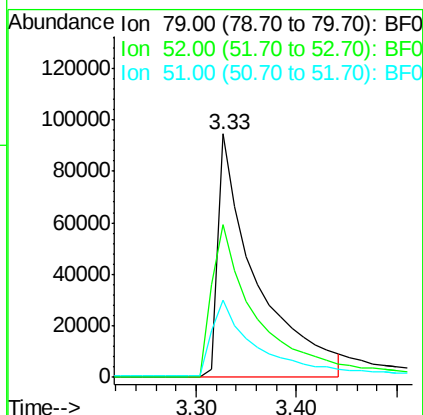
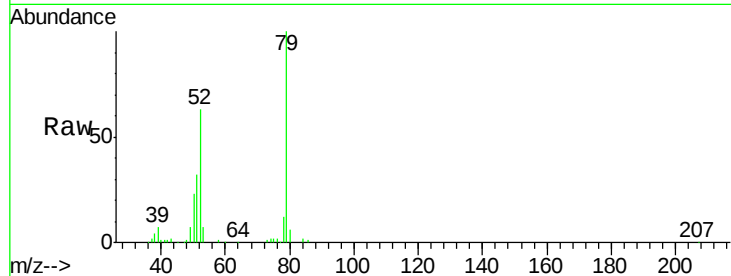




#3
 Pyridine
 Concen: 27.94 ng
 RT: 3.33 min Scan# 91
 Delta R.T. 0.14 min
 Lab File: BF085627.D
 Acq: 21 Mar 2016 17:37

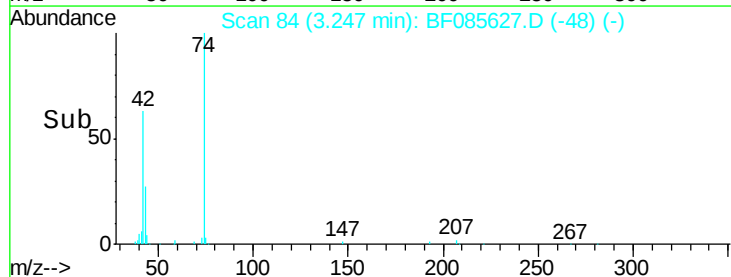
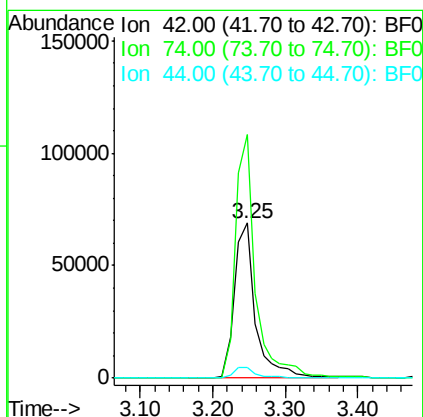
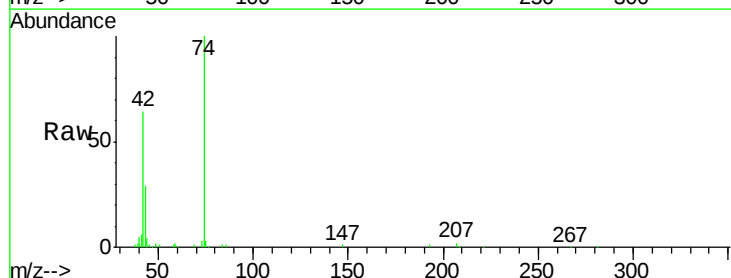
Instrument :
 BNA_F
 ClientSampleId :
 TRACK-D-GRID-9BMSD

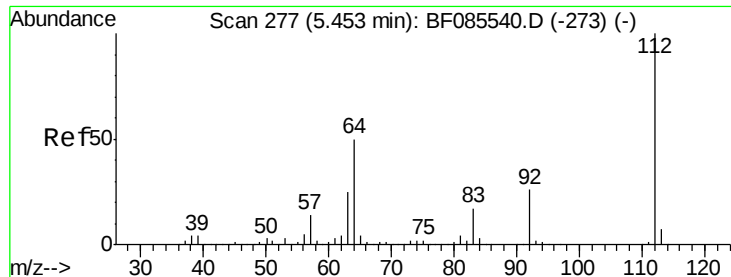
Tgt Ion: 79 Resp: 250599
 Ion Ratio Lower Upper
 79 100
 52 62.9 49.8 74.6
 51 31.6 24.7 37.1



#4
 n-Nitrosodimethylamine
 Concen: 37.59 ng
 RT: 3.25 min Scan# 84
 Delta R.T. 0.11 min
 Lab File: BF085627.D
 Acq: 21 Mar 2016 17:37

Tgt Ion: 42 Resp: 140750
 Ion Ratio Lower Upper
 42 100
 74 156.9 121.4 182.2
 44 6.9 5.6 8.4





#5

2-Fluorophenol

Concen: 117.84 ng

RT: 5.46 min Scan# 278

Delta R.T. 0.01 min

Lab File: BF085627.D

Acq: 21 Mar 2016 17:37

Instrument :

BNA_F

ClientSampleId :

TRACK-D-GRID-9BMSD

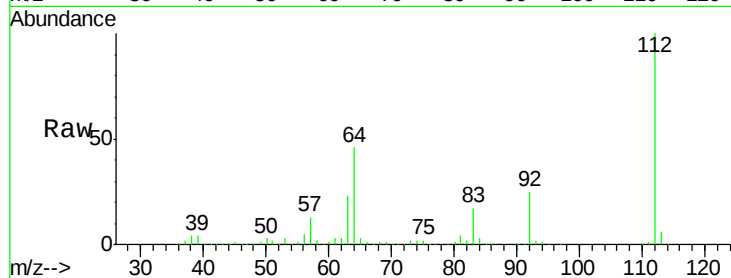
Tgt Ion: 112 Resp: 885490

Ion Ratio Lower Upper

112 100

64 45.7 39.9 59.9

63 23.0 20.2 30.2



Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0

800000

600000

400000

200000

0

5.40

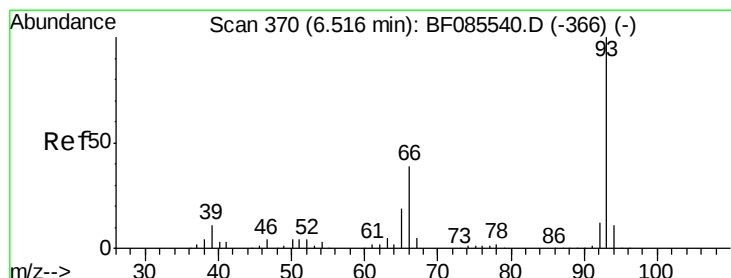
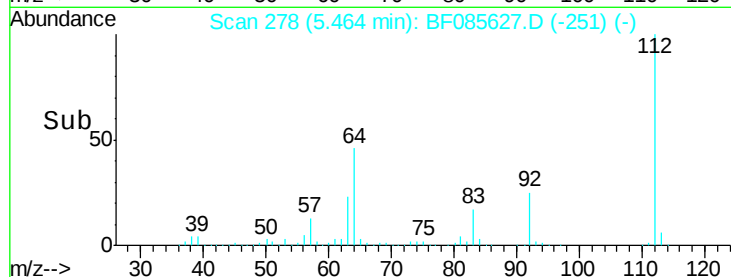
5.46

5.50

5.56

5.60

Time-->



#6

Aniline

Concen: 18.88 ng

RT: 6.50 min Scan# 369

Delta R.T. -0.01 min

Lab File: BF085627.D

Acq: 21 Mar 2016 17:37

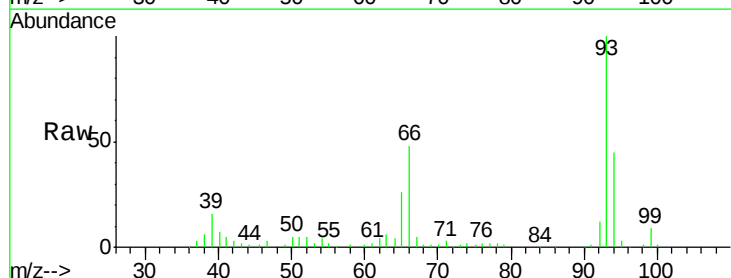
Tgt Ion: 93 Resp: 244438

Ion Ratio Lower Upper

93 100

66 48.1 31.4 47.2#

65 26.4 15.7 23.5#



Abundance Ion 93.00 (92.70 to 93.70): BF0

Ion 66.00 (65.70 to 66.70): BF0

Ion 65.00 (64.70 to 65.70): BF0

500000

400000

300000

200000

100000

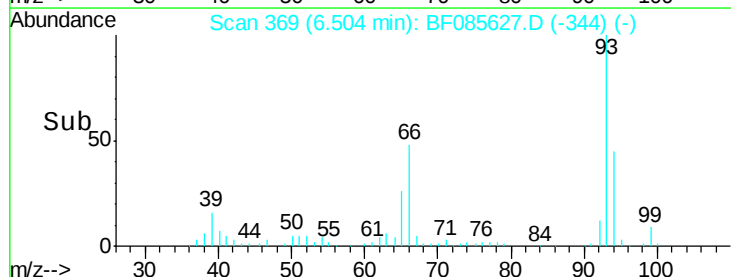
0

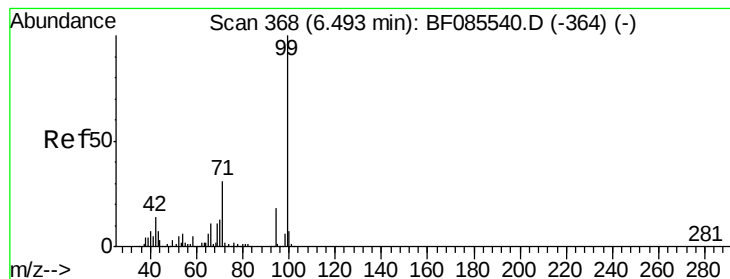
6.45

6.50

6.55

Time-->





#7

Phenol-d6

Concen: 102.07 ng

RT: 6.48 min Scan# 367

Delta R.T. -0.01 min

Lab File: BF085627.D

Acq: 21 Mar 2016 17:37

Instrument :

BNA_F

ClientSampleId :

TRACK-D-GRID-9BMSD

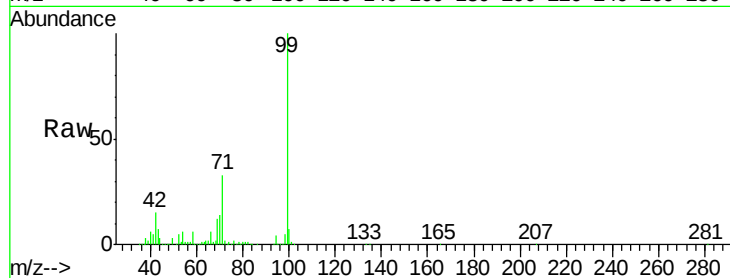
Tgt Ion: 99 Resp: 983745

Ion Ratio Lower Upper

99 100

42 15.0 11.1 16.7

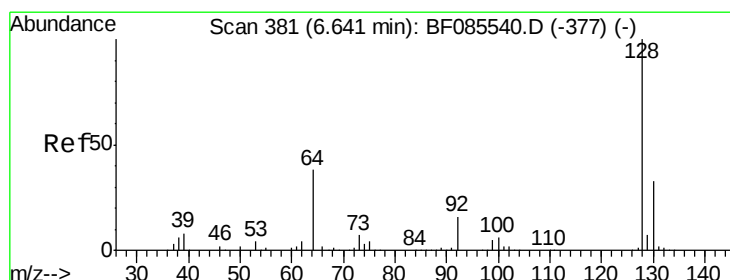
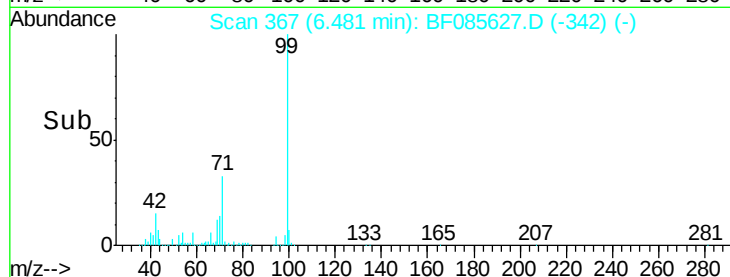
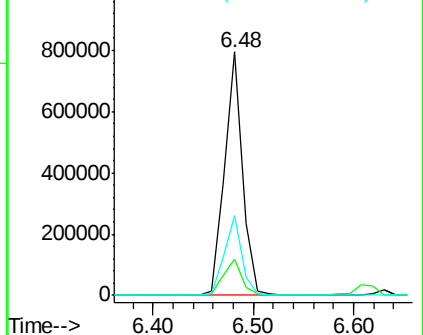
71 32.8 24.9 37.3



Abundance Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0



#8

2-Chlorophenol

Concen: 38.50 ng

RT: 6.63 min Scan# 380

Delta R.T. -0.01 min

Lab File: BF085627.D

Acq: 21 Mar 2016 17:37

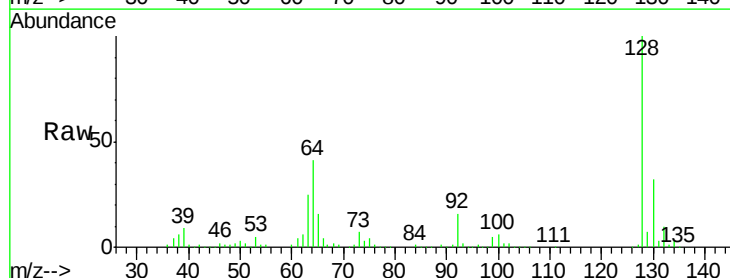
Tgt Ion: 128 Resp: 334701

Ion Ratio Lower Upper

128 100

130 32.5 12.9 52.9

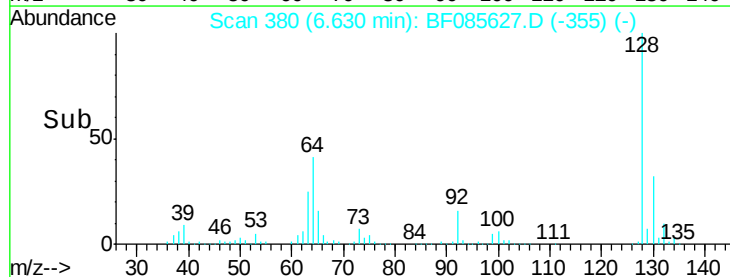
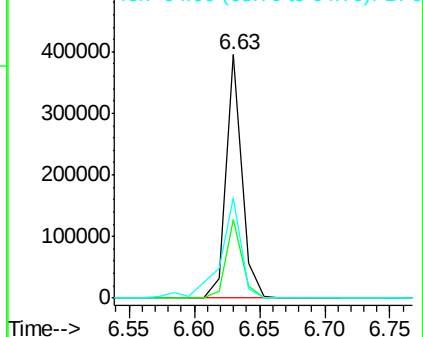
64 41.2 20.2 60.2

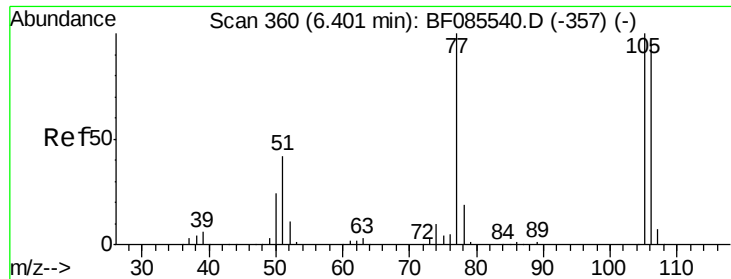


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 130.00 (129.70 to 130.70): E

Ion 64.00 (63.70 to 64.70): BF0





#9

Benzaldehyde

Concen: 5.67 ng

RT: 6.39 min Scan# 359

Delta R.T. -0.01 min

Lab File: BF085627.D

Acq: 21 Mar 2016 17:37

Instrument :

BNA_F

ClientSampleId :

TRACK-D-GRID-9BMSD

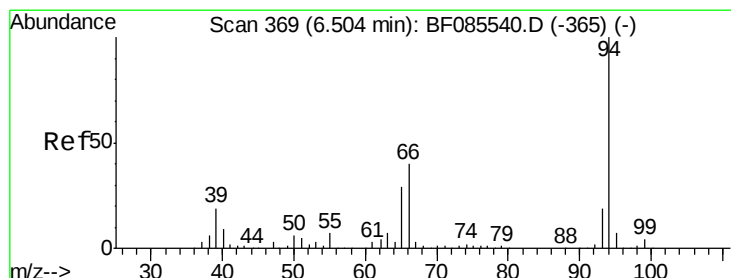
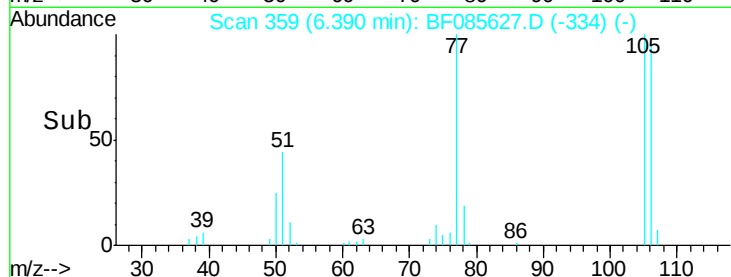
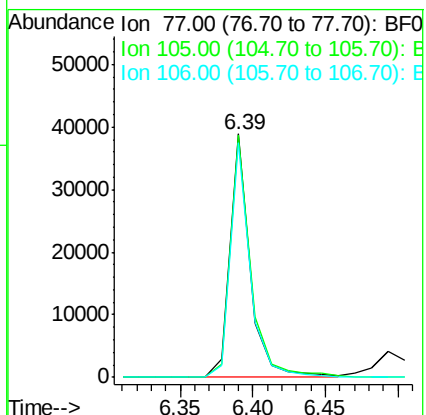
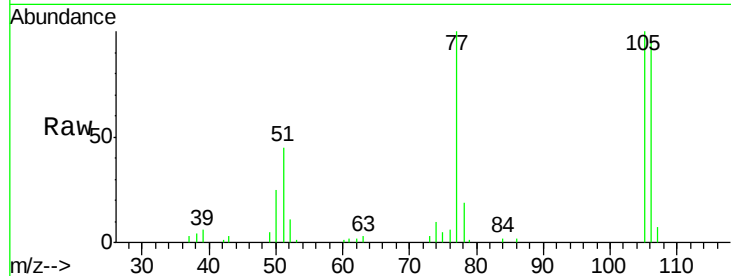
Tgt Ion: 77 Resp: 37594

Ion Ratio Lower Upper

77 100

105 99.6 80.1 120.1

106 96.2 75.0 115.0



#10

Phenol

Concen: 31.88 ng

RT: 6.49 min Scan# 368

Delta R.T. -0.01 min

Lab File: BF085627.D

Acq: 21 Mar 2016 17:37

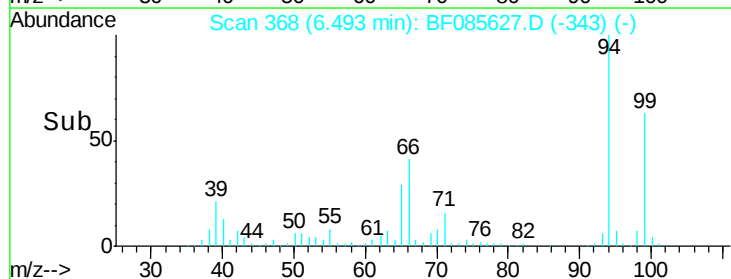
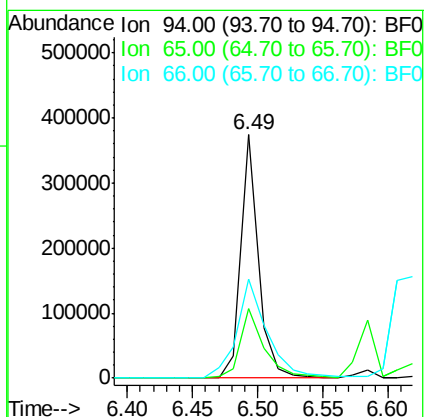
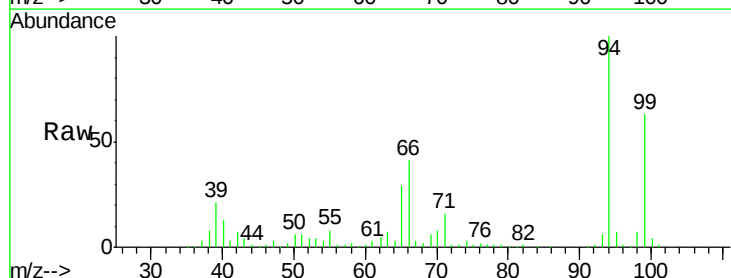
Tgt Ion: 94 Resp: 349902

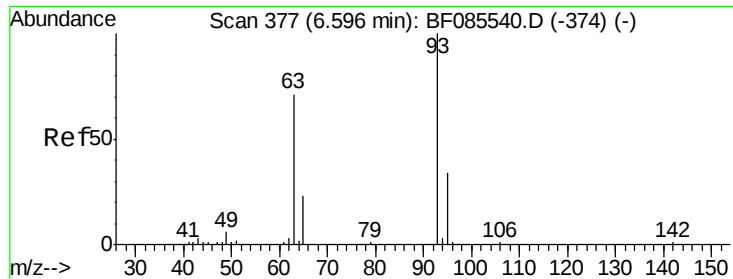
Ion Ratio Lower Upper

94 100

65 28.6 8.6 48.6

66 40.7 20.0 60.0

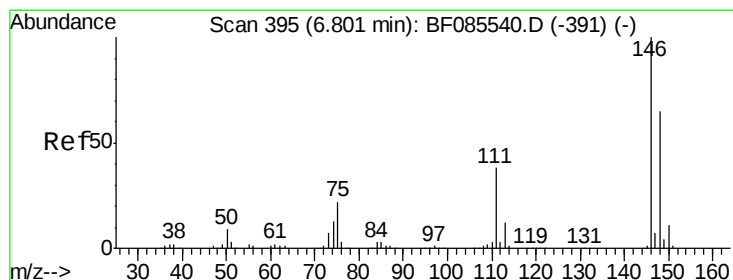
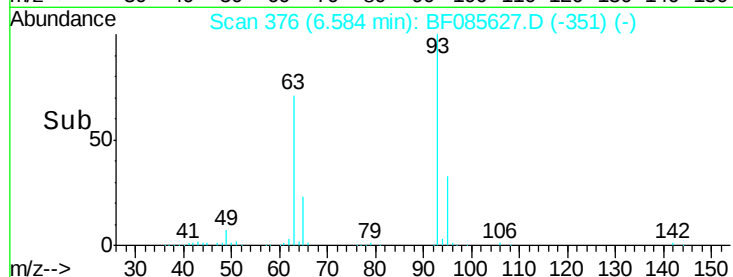
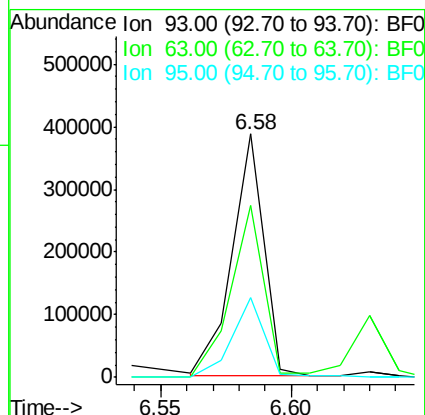
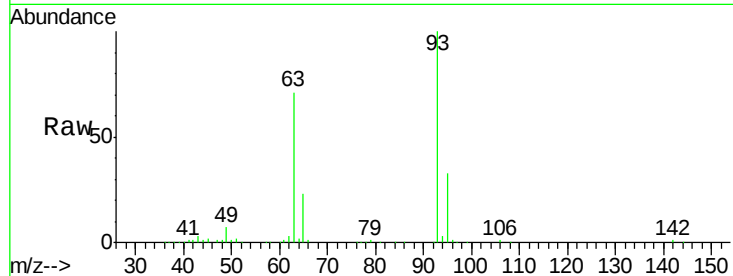




#11
 bis(2-Chloroethyl)ether
 Concen: 40.01 ng
 RT: 6.58 min Scan# 376
 Delta R.T. -0.01 min
 Lab File: BF085627.D
 Acq: 21 Mar 2016 17:37

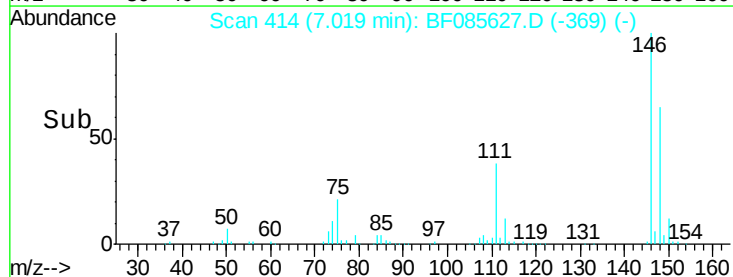
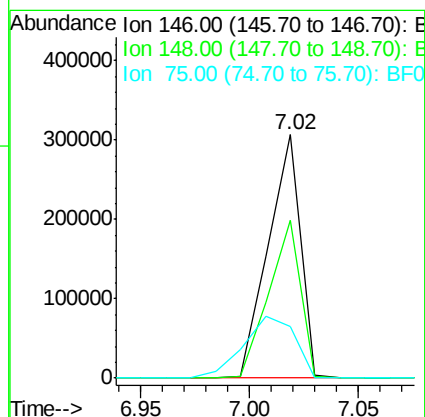
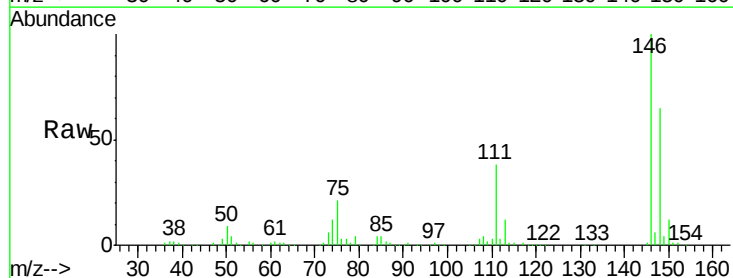
Instrument :
 BNA_F
 ClientSampleId :
 TRACK-D-GRID-9BMSD

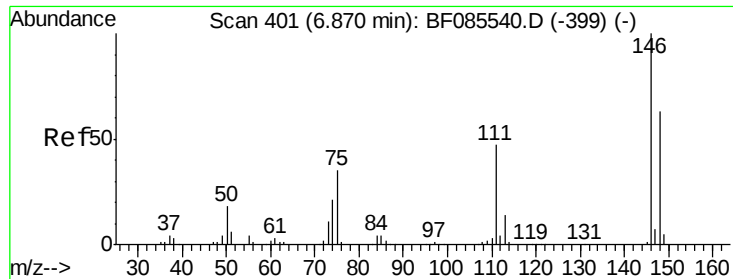
Tgt Ion: 93 Resp: 331137
 Ion Ratio Lower Upper
 93 100
 63 70.6 50.9 90.9
 95 32.7 13.3 53.3



#12
 1,3-Dichlorobenzene
 Concen: 33.81 ng
 RT: 7.02 min Scan# 414
 Delta R.T. 0.22 min
 Lab File: BF085627.D
 Acq: 21 Mar 2016 17:37

Tgt Ion: 146 Resp: 320237
 Ion Ratio Lower Upper
 146 100
 148 64.8 52.3 78.5
 75 21.4 17.4 26.2

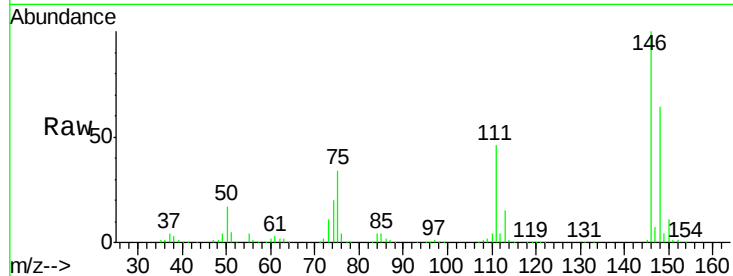




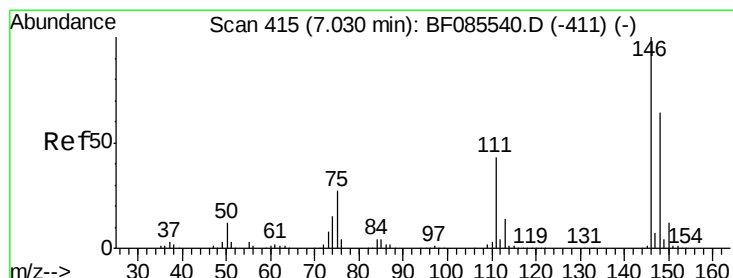
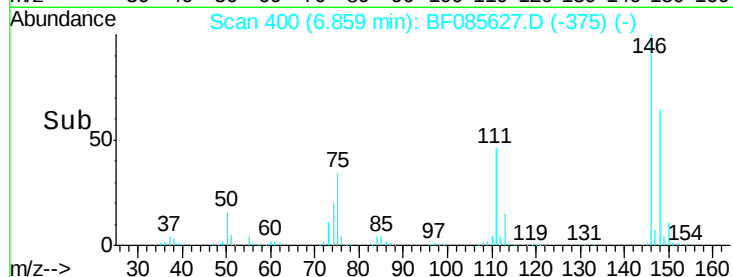
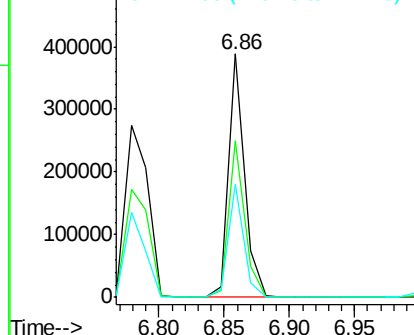
#13
 1,4-Dichlorobenzene
 Concen: 34.44 ng
 RT: 6.86 min Scan# 400
 Delta R.T. -0.01 min
 Lab File: BF085627.D
 Acq: 21 Mar 2016 17:37

Instrument :
 BNA_F
 ClientSampleId :
 TRACK-D-GRID-9BMSD

Tgt Ion:146 Resp: 332766
 Ion Ratio Lower Upper
 146 100
 148 64.2 50.6 76.0
 111 46.3 37.8 56.6

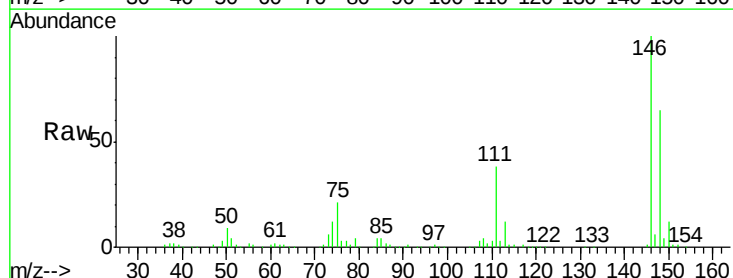


Abundance Ion 146.00 (145.70 to 146.70): E
 Ion 148.00 (147.70 to 148.70): E
 Ion 111.00 (110.70 to 111.70): E

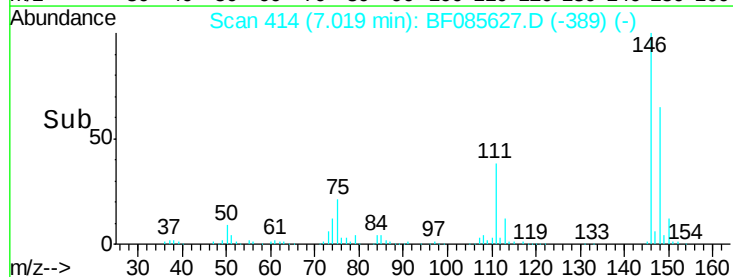
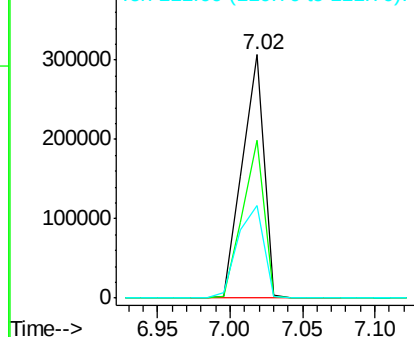


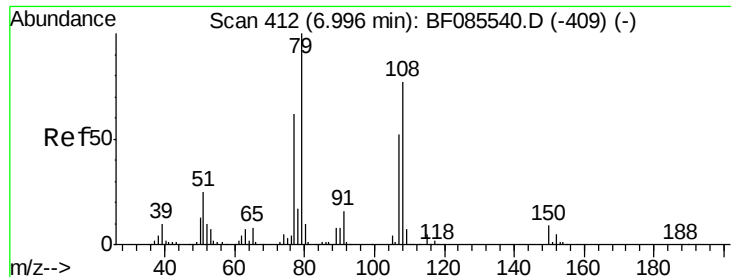
#14
 1,2-Dichlorobenzene
 Concen: 37.35 ng
 RT: 7.02 min Scan# 414
 Delta R.T. -0.01 min
 Lab File: BF085627.D
 Acq: 21 Mar 2016 17:37

Tgt Ion:146 Resp: 320454
 Ion Ratio Lower Upper
 146 100
 148 64.8 51.4 77.2
 111 38.3 34.6 52.0



Abundance Ion 146.00 (145.70 to 146.70): E
 Ion 148.00 (147.70 to 148.70): E
 Ion 111.00 (110.70 to 111.70): E





#15

Benzyl Alcohol

Concen: 39.45 ng

RT: 6.98 min Scan# 411

Delta R.T. -0.01 min

Lab File: BF085627.D

Acq: 21 Mar 2016 17:37

Instrument :

BNA_F

ClientSampleId :

TRACK-D-GRID-9BMSD

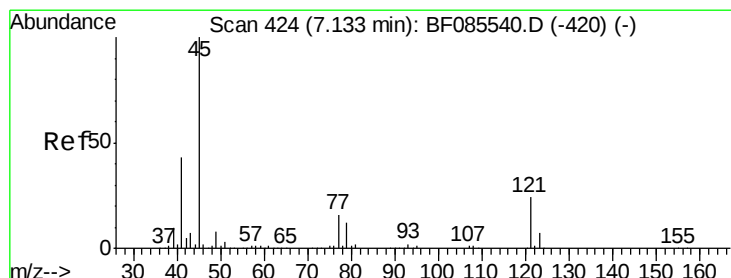
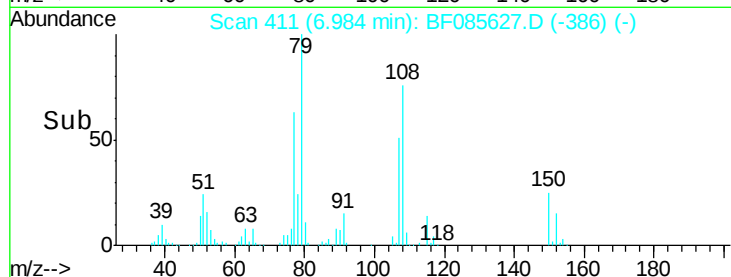
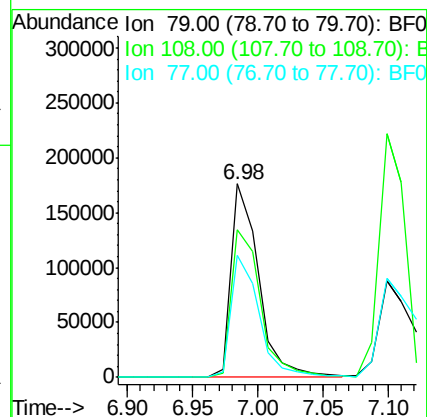
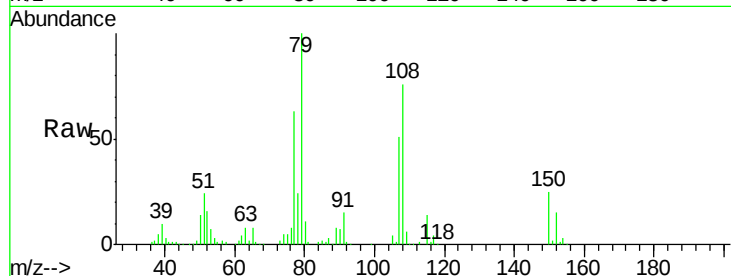
Tgt Ion: 79 Resp: 260453

Ion Ratio Lower Upper

79 100

108 76.5 61.8 92.6

77 62.8 49.6 74.4



#16

2,2'-oxybis(1-Chloropropane)

Concen: 37.17 ng

RT: 7.12 min Scan# 423

Delta R.T. -0.01 min

Lab File: BF085627.D

Acq: 21 Mar 2016 17:37

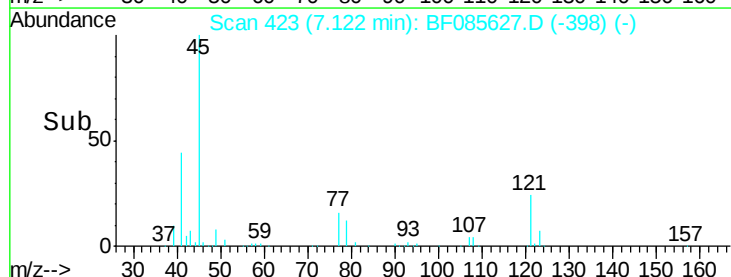
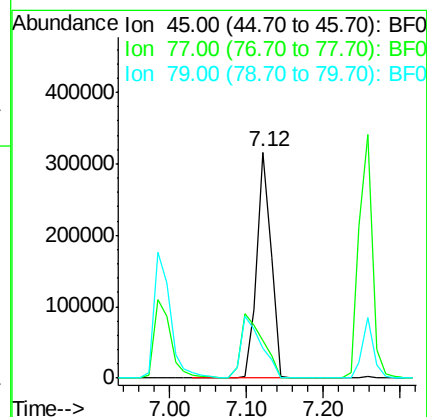
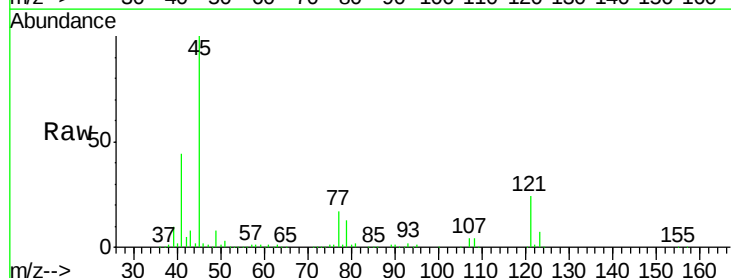
Tgt Ion: 45 Resp: 404489

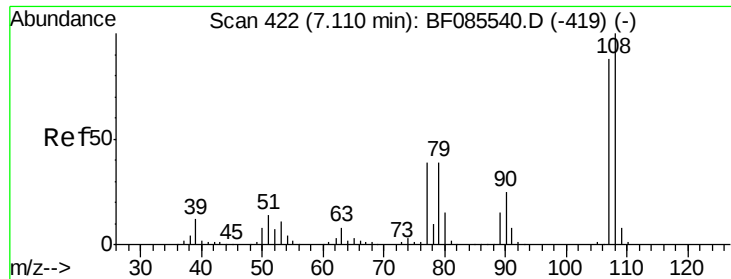
Ion Ratio Lower Upper

45 100

77 16.8 0.0 35.7

79 13.1 0.0 32.2

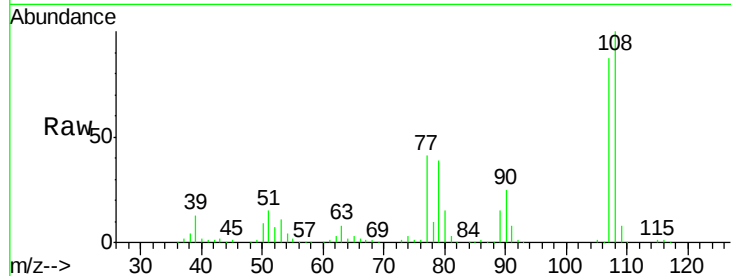




#17
2-Methylphenol
Concen: 37.05 ng
RT: 7.10 min Scan# 421
Delta R.T. -0.01 min
Lab File: BF085627.D
Acq: 21 Mar 2016 17:37

Instrument :
BNA_F
ClientSampleId :
TRACK-D-GRID-9BMSD

Tgt Ion	Ratio	Resp	Lower	Upper
107	100	266995		
108	115.0	91.4	137.0	
77	47.0	36.2	54.2	
79	45.3	35.8	53.8	



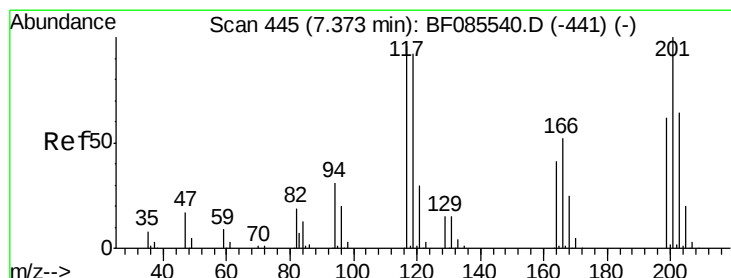
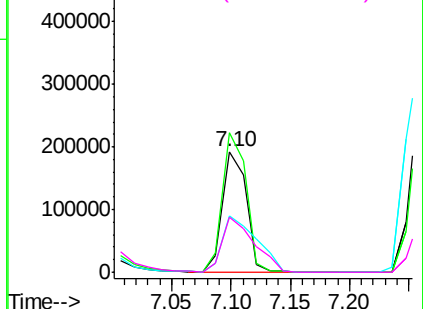
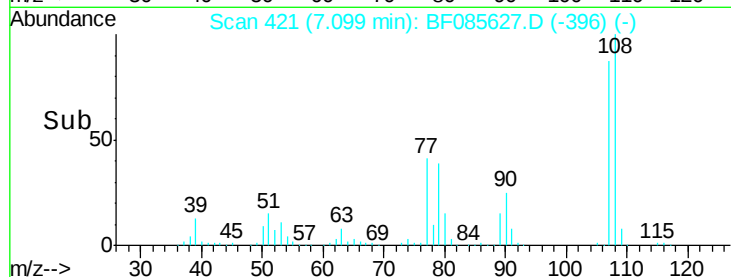
Abundance

Ion 107.00 (106.70 to 107.70): E

Ion 108.00 (107.70 to 108.70): E

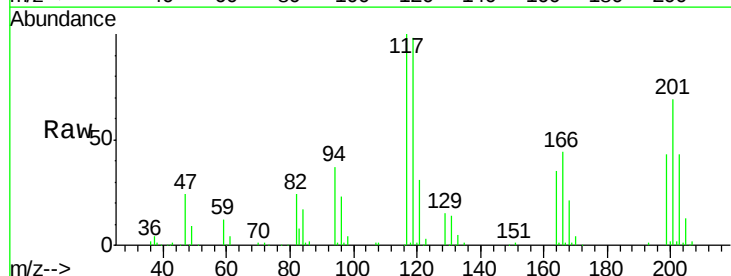
Ion 77.00 (76.70 to 77.70): BF0

Ion 79.00 (78.70 to 79.70): BF0



#18
Hexachloroethane
Concen: 36.28 ng
RT: 7.35 min Scan# 443
Delta R.T. -0.02 min
Lab File: BF085627.D
Acq: 21 Mar 2016 17:37

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	126570		
119	97.7	76.7	115.1	
201	69.0	83.3	124.9#	

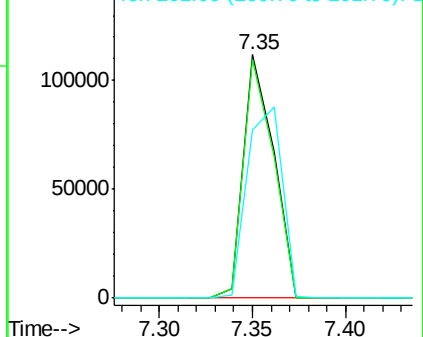
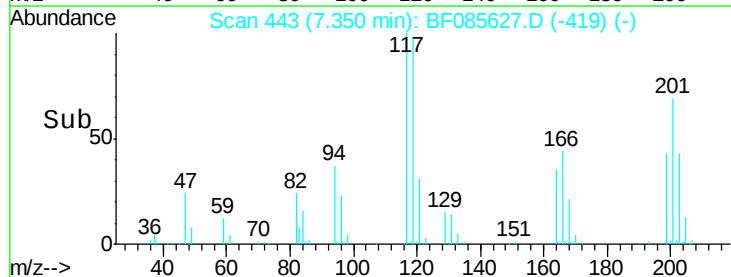


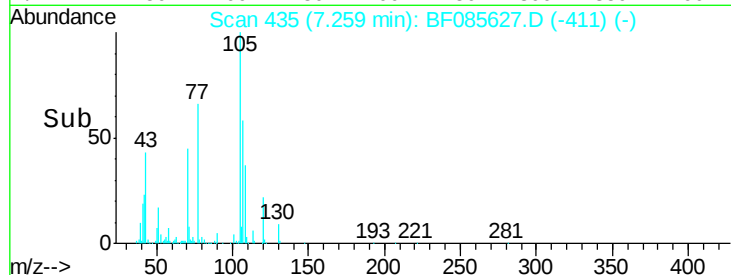
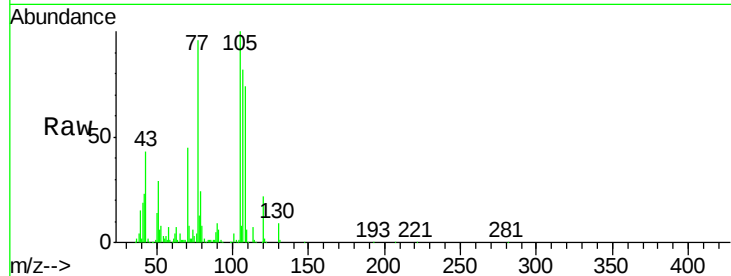
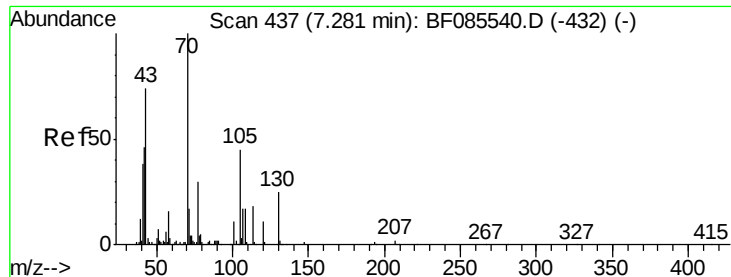
Abundance

Ion 117.00 (116.70 to 117.70): E

Ion 119.00 (118.70 to 119.70): E

Ion 201.00 (200.70 to 201.70): E

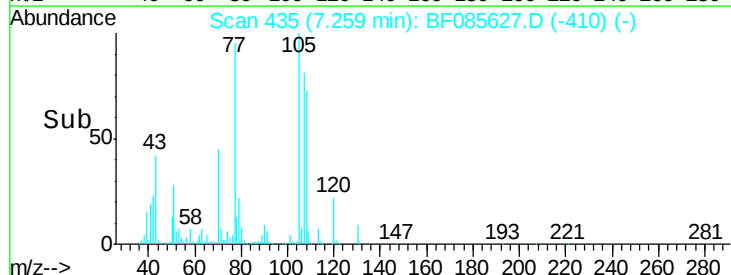
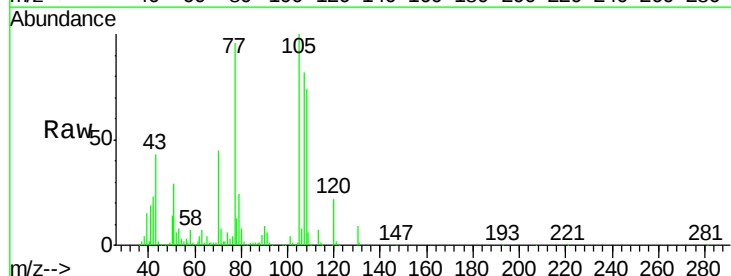
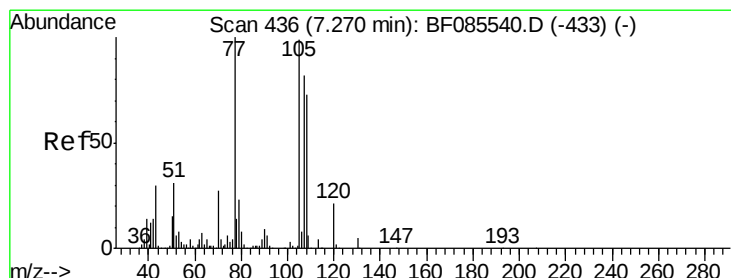
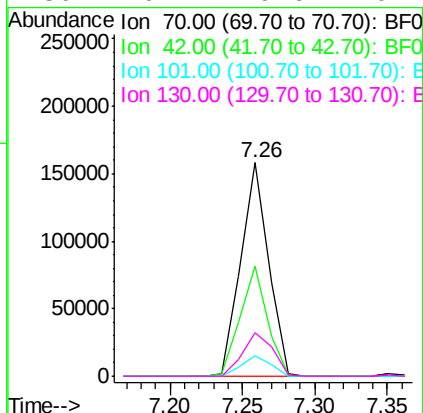




#19
n-Nitroso-di-n-propylamine
Concen: 36.51 ng
RT: 7.26 min Scan# 435
Delta R.T. -0.02 min
Lab File: BF085627.D
Acq: 21 Mar 2016 17:37

Instrument :
BNA_F
ClientSampleId :
TRACK-D-GRID-9BMSD

Tgt Ion:	70	Resp:	210211
Ion	Ratio	Lower	Upper
70	100		
42	51.8	37.1	55.7
101	9.8	8.6	12.8
130	20.2	19.6	29.4



#20
3+4-Methylphenols
Concen: 37.36 ng
RT: 7.26 min Scan# 435
Delta R.T. -0.01 min
Lab File: BF085627.D
Acq: 21 Mar 2016 17:37

Tgt Ion:	107	Resp:	311826
Ion	Ratio	Lower	Upper
107	100		
108	90.6	69.3	109.3
77	117.0	101.7	141.7
79	28.9	8.3	48.3

